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Office Hours:
  Monday & Wednesday: 4:30 PM - 6:00 PM [WALK-IN]
  Monday & Wednesday: 3:30 PM - 4:30 PM [BY APPOINTMENT]

Class Time and Place: Monday, Wednesday 9:30 AM - 2:20 PM, Room #: 3973.
Prerequisite: A grade of C or better in Mathematics 98 or appropriate placement test score or consent of department chairperson.

Course Description: Solution of linear and absolute value equations and linear inequalities; integer and rational exponents, simplification of radicals; slope and graphing linear equations; systems of linear equations; solution of quadratic equations by factoring, completing the square and using the quadratic formula; introduction to functions; applications included throughout the course. Writing assignments, as appropriate to the discipline, are part of the course.

Other materials: Students are required to have a scientific or a graphing calculator. You are not allowed to use a cell phone as a calculator.

Internet Resources: The textbook we are using is bundled with MathZone software. MathZone is a complete online tutorial and course management system for mathematics and statistics, designed for greater ease of use than any other system available. MathZone is a powerful Web-based tutorial for homework, quizzing, testing, and multimedia instruction. Also available in CD-Rom format, MathZone offers:

- **Practice Exercises** based on the text and generated in unlimited quantity for as much practice as needed to master any objective.

- **Video** clips of classroom instructors showing how to solve exercises from text step by step.

- **e-Professor** animations that take the student through step-by-step instructions, delivered on-screen and narrated by a teacher on audio, for solving exercises from the textbook; the user controls the pace of the explanations and can review as needed.

- **NetTutor**, which offers personalized instruction by live tutors familiar with the textbook’s objectives and problem-solving methods.

Every assignment, exercise, video lecture, and e-Professor is derived from the textbook. If you bought your new textbook at Beck’s Bookstore, you should have automatically received MathZone access code. If you bought your textbook elsewhere, you may not have MathZone access code. You
should be able to purchase a code online at http://www.mathzone.com, and I think it costs around $25.

**Credit Hours:** 5 credit hours.

**Class Operation:**

1. **Homework:** Homework assignments will be collected every week. The quizzes will be based on the homework problems and additional worksheets. Students who keep up the daily work are generally those who do well on quizzes and tests.

2. **Blackboard & Web site:** It is your responsibility to check the Blackboard & My Web site regularly for announcements and other important information regarding the course.

3. **Online Assignments:** Some of the homework assignments, quizzes, and tests are online assignments which are created by using MathZone software. These assignments are automatically graded. Online homework exercises include guided solutions and sample problems to help students understand and master concepts.

4. **Quizzes:** Throughout the semester, we will have at least 8 quizzes. Quizzes cannot be made up. *There are no exceptions.* As a result, I will drop the lowest quiz. We will not have quizzes on the weeks an exam is scheduled.

5. **Tests:** There will be two exams during the summer semester besides the final exam. The final exam is cumulative, and it will be given during the last week of the summer semester.

**Policies:**

- **Make-up Policy:** No make-up exam is given without prior notification and documented acceptable excuse. The student must contact the instructor by telephone or e-mail on the day of the exam if there is a problem. If you know in advance of an unavoidable absence, arrangements can be made to take a test prior to the absence.

- **Attendance Policy:** Students must attend every lecture. They are expected to be there ON TIME. Attendance will be taken daily. If you miss a class, it is your responsibility to obtain the assignment and find out what material was covered.

- **Cell Phones and Beepers:** Electronic devices cause disruption during class and are not permitted. In order to respect the learning environment, please turn off all such items prior to class.

**Truman College Academic Integrity Policy:** If the alleged violation of the Academic Integrity policy occurs in the classroom, the instructor will determine if a student has committed an act of academic dishonesty. The instructor may take action commensurate with the severity of the act. The instructor may:

1. Assign a grade ‘F’ or ‘0’ to the assignment or test or appropriate part of the assignment or test.

2. Make a proportional reduction in the grade for an entire assignment, if the assignment is a part of a large assignment.
3. Assign a grade ‘F’ for the course. “See the student Handbook for specifics”.

Types of Activities: There will be an emphasis on on active and cooperative learning strategies throughout this class. Active Learning is, in short, anything that students do in a classroom other than merely passively listening to an instructor’s lecture. This includes everything from listening practices which help students to absorb what they hear, to short writing exercises in which students react to lecture material, to complex group exercises in which students apply course material to “real life” situations and/or to new problems. Cooperative learning is a successful teaching strategy in which small teams, each with students of different levels of ability, use a variety of learning activities to improve their understanding of a subject. Each member of a team is responsible not only for learning what is taught but also for helping teammates learn, thus creating an atmosphere of achievement. Some of the class active/cooperative learning strategies are listed below. Think-Pair-Share, Student Summaries, One-Minute Paper, Jigsaw Teamwork, Roundtable, Corners and Shared Brainstorming.

Weekly Schedule:

1. [Jun 2-Jun 6]: Introduction to Geometry(R.3), Linear Equations in One Variable (Review B)[Optional], Linear Equations in Two Variables (Review C:C2-C5 only), Slope-Intercept Form of a Line (3.4), Point-Slope Formula (3.5), Applications of Linear Equation (3.6), Systems of Linear Equations in 2 variables (Review D: D1, and D2 only)[Optional].

2. [Jun 9-Jun 13]: Solving Systems of Linear Equations by the Addition Method(4.3), Applications of Linear Equations in Two Variables(4.4), Systems of Linear Equations in Three Variables(9.1), Applications of Systems of Linear Equations in Three Variables(9.2), Polynomials and Properties of Exponents(Review E), Factoring Polynomials and Solving Quadratic Equations(Review F), Rational Expressions(Review G: G1,G2, and G3 only).

3. [Jun 16-Jun 20]: Least Common Denominator(7.3), Addition and Subtraction of Rational Expressions(7.4), Complex Fractions(7.5), Rational Equations(7.6), Applications of Rational Equations and Proportions(7.7).

4. [Jun 23-Jun 27]: Introductions to Relations(8.1), Introductions to Functions(8.2), Graphs of Functions(8.3), Compound Inequalities(10.1). [Review & Exam I].

5. [Jun 30-Jul 4]: Absolute Value Equations(10.3), Linear Inequalities in Two Variables(10.5), Definition of the nth Root(11.1), Rational Exponents(11.2).

6. [Jul 7-Jul 11]: Simplifying Radical Expressions(11.3), Addition and Subtraction of Radicals(11.4), Multiplications of Radicals(11.5), Rationalization(11.6).

7. [Jul 14-Jul 18]: Radical Equations(11.7), Complex Numbers(11.8), Square Root Property and Completing the Square(12.1), Quadratic Formula (12.2). [Review & Exam II].

Grading Policy:

- Exam I @ 20%
- Exam II @ 20%
- Final Exam @ 30%
- Quizzes @ 15%
- Online Assignments @ 05%
- Homework Assignments, Class Participation & Attendance @ 10%

Grading Scale:

- (90 - 100)% A
- (80 - 89)% B
- (70 - 79)% C
- (60 - 69)% D
- (0 - 59)% F

Extra Help!: Many students find that they need extra help in addition to that available in class. Help is available from the instructor at the times indicated or by appointment. Also, recognize that others in the class can and are willing to help. You are encouraged to keep in touch with classmates who have similar schedules. Tutoring is also available at Truman college.

Good Luck
Shuaibi, A.