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COURSE DESCRIPTION: This course continues the development of algebraic skills and concepts. The topics include: factoring, solving equations by factoring, functions and graphs, applications of systems of equations, rational expressions and equations, operations of radicals and rational exponents, quadratic equations, exponential and logarithmic functions.

TEXTBOOK: Elementary and Intermediate Algebra by Baratto, Bergman by McGraw Hill, 5th edition.

PREREQUISITE: Acceptable placement score or Math 095 with a "C" grade or better.

OFFICE HOURS: I will be available to meet with the students at the school in the evenings as needed.

ATTENDANCE: I look forward to seeing you at each class. Absences will jeopardize success in this course.

HOMEWORK: Assignments are provided in this outline. You are expected to have completed the assignment for the next class session. I will not collect your homework. I will use the quizzes and work in class to judge the progress of the class. Questions on the homework will be discussed at the beginning of class. I will generally be in the classroom 30 minutes before the start of class to provide help and homework review.

EXAMS/QUIZZES: There will be three non-cumulative exams and no final in this course. You are required to take all exams. Any schedule conflicts should be resolved prior to the examination day. There will also be quizzes as listed.

GRADING: Your grade will be determined as follows:

Three Exams - 25% each (75% total)

Quizzes - 25% combined

| <u>CLASS AVERAGE</u> | <u>FINAL GRADE</u> |
|----------------------|--------------------|
| 90 -100 | A- / A |
| 80 - 89 | B- / B+ |
| 70 - 79 | C- / C+ |
| 60 - 69 | D- / D+ |
| Below 60 | F |

COLLEGE WITHDRAWAL POLICY: As stated in college catalog

DISABILITIES AND LEARNING DIFFERENCE STATEMENT: As stated in college catalog
(See me if you have any questions or concerns).

TYPICAL CLASS:

- Begin class with review of homework, as needed, and answer questions.
- Review Quiz/Test from previous week if applicable.
- Teach concepts for evening. Introduce, explain, and demonstrate the concept.
- Quiz on previous weeks material if one is scheduled.
- After you finish the quiz you are done for the evening. This allows the student to take as much time as s/he needs without time pressure.

On Test Days

- Meet with students (whoever would like to come) 30 minutes before class starts to answer questions.
- Test on material listed. Will not include the previous week concepts.
- After you finish the test you are done for the evening. This allows the student to take as much time as s/he needs without time pressure.

CLASS EXPECTATIONS:

- We will be respectfully of everyone in class
- I will be an active participant in your education. I want to see you succeed. I will:
 - Be prepared for class
 - Administer quizzes and tests that are similar to what you are taught and what you were given for homework.
 - Inform you if you are doing below C level work
 - Work with you when situations arise that affect your class work
- You will be an active participant in your education. You will;
 - Come to class ready to learn
 - Do your homework
 - Ask questions when you don't understand something
 - Get help early when you don't understand the material (professor, tutor center, another student, anyone that can help you)
 - Participant in your work groups; do the problems, help others and accept help.

| Class | Date | Sections Teaching | Topic | Quiz Sections | Test Sections | Homework |
|-------|--------|-------------------|--|-----------------------|-----------------------|--|
| 1 | Jan 26 | 6.1 6.2 | Factoring Intro Special Products | None | None | 6.1, page 486; 5, 9, 13, 23 – 47 every other odd, 63, 67, 71 – 83 every other odd, 95, 97 6.2, page 497; 1 – 67 every other odd, 85 |
| 2 | Feb 2 | 6.3 6.4 | Trail & Error AC Method | Quiz #1 6.1 - 6.2 | None | 6.3, page 507; 17, 25, 33, 41, 49, 53 – 71 every other odd, 83, 85 6.4, page 517; 11, 19, 21, 25, 31, 39, 47, 55, 63, 87, 95, 103, 121 |
| 3 | Feb 9 | 6.5 6.6 | Factoring Strategy Problem Solving | Quiz #2 6.3 - 6.4 | None | 6.5, page 524; 1, 9, 17, 25, 31 – 79 every other odd 6.6, page 537; 1, 9, 17, 25, 33, 41, 49, 57, 59, 61, 71, 73, 77, 83, 89, 93, 109, 113 |
| 4 | Feb 23 | 7.1 7.2 | Roots & Radicals Simplifying | None | None | 7.1, page 560; 1 – 13 odd, 25, 27, 29, 33, 39, 41, 49, 53, 55, 57, 59 – 63 odd, 79, 81, 115 7.2, page 573; 1, 5, 17, 25, 29, 33, 41, 85 |
| 5 | Mar 2 | None | | None | Test #1 6.1 - 6.6 | |
| 6 | Mar 9 | 7.3 7.4 | Operations Solving Radicals | Quiz # 3 7.1 - 7.2 | None | 7.3, page 584; 1, 3, 7, 9, 13, 15, 17, 19, 21, 35, 39, 41, 45, 47, 49, 53, 57, 59, 61, 91 7.4, page 593; 1, 5, 9, 11, 15, 19, 33, 35, 55, 59, 63 |
| 7 | Mar 30 | 7.5 7.6 | Radical Exponents Complex Numbs | Quiz # 4 7.3 - 7.4 | None | 7.5, page 603; 1, 7, 13, 23, 31, 33, 37, 41, 49, 57, 65, 73, 79, 85, 87, 99 7.6, page 611; 1 – 9 odd |
| 8 | Apr 6 | 8.1 8.2 | Solve Quadratics Quadratic Formula | Quiz # 5 7.5 - 7.6 | None | 8.1, page 633; 1, 5, 9, 13, 15, 17, 19, 33, 35, 39, 57, 59, 61, 67 8.2, page 652; 21 – 51 odd, 57, 59, 61, 63, 67, 69, 71, 73, 79, 81 |
| 9 | Apr 13 | 8.3 8.4 | Parabolas Solve Quadratics | None | None | 8.3, page 665; 3, 5, 19, 21, 25 – 43 odd, 55 8.4, page 678; 1, 5, 7, 9, 13, 15, 25, 29, 41, 43 |
| 10 | Apr 20 | None | | | Test #2 7.1 - 8.2 | |
| 11 | Apr 27 | 9.1 9.2 | Rational Expressions | Quiz # 6 8.3 - 8.4 | None | 9.1, page 698; 1 – 7 odd, 9, 11, 13, 17, 19, 33, 35, 37, 41, 43, 49, 67, 69, 79, 81 9.2, page 710; 1, 7, 13, 15, 17, 19, 27, 29, 37, 39, 43 |
| 12 | May 4 | 9.3 9.6 | Rational Express Solving | Quiz # 7 9.1 - 9.2 | | 9.3, page 721; 1, 7, 11, 13 – 35 odd, 47, 55, 57 9.6, page 762; 9, 11 – 29 odd, 35, 41, 43, 55, 59, 63, 65, 69, 73, 75, 79, 81, 83, 85, 89, 91, 93, 97, 101 |
| 13 | May 11 | 10.4 | Expon Function | | None | 10.4, page 819; 1, 5, 7, 11, 15, 19, 23, 25, 27, 29, 35, 39 – 57 odd, 63, 75 |
| 14 | May 18 | | | | Test #3 8.3 - 10.4 | |