**MAT 95 Intermediate Algebra Fall 2019**

**Syllabus**

**Instructor: Peter Dodson Office: Room 87C**

**Email:** [pdodson@uwsp.edu](mailto:pdodson@uwsp.edu)

**Class Period: 9:00 – 9:50 Monday, Tues, Wed ,Thursday Classroom 240**

**Office Hours: Mon -Thurs 10:00 – 11:00 or by Appointment**

**Prerequisite:** A grade of C or better in MAT 90 or suitable placement test.

**Textbook:** *Elementary and Intermediate Algebra 5ed*., by **Tussy** and **Gustafson**

**Course Description:** Math 95 is a 2 credit course. Topics include: factoring, simplifying rational expressions, rules of exponents, radical expressions and equations, quadratic equation, functional notation, evaluation of functions and graphs.

**Assignments: Assignments will be collected and graded daily.** Assignments consist of problems from the exercises in the textbook at the end of each section. These problems should be completed *before* the next scheduled class. Questions from the assignment will be answered at the beginning of the next class. The assignments will prepare you for the quizzes and exams.

**Attendance:** You are expected to be at all classes. A large part of the learning experience will occur in class during presentation of homework and in-class assignments as well as classroom discussions.

**Order of Material Covered:**

**Chapter 5**

5.1 Rules for Exponents

5.2 Zero and Negative Exponents

**Chapter 8**

8.2 Functions (Refer to Ch 3.4-3.6 for more depth in writing linear equations.)

8.6 Review of Factoring Methods: GCF, Grouping, Trinomials

8.7 Review of Factoring Methods: The Difference of Two Squares;

the Sum and Difference of Two Cubes

**Chapter 6**

6.6 A Factoring Strategy

6.7 Solving Quadratic Equations by Factoring

**Chapter 9**

9.1 Radical Expressions and Radical Functions

9.2 Rational Exponents

9.3 Simplifying and Combining Radical Expressions

9.4 Multiplying and Dividing Radical Expressions

9.5 Solving Radical Equations

9.6 Geometric Applications of Radicals

**Chapter 10**

10.1 The Square Root Property and Completing the Square

10.2 The Quadratic Formula

10.3 The Discriminant and Equations That Can Be Written in Quadratic Form

**Quizzes:** Throughout the course there will be several quizzes. You may drop one quiz. Missed quizzes may NOT be made up unless the absence is pre-arranged.

**Midterm:** The midterm exam will be given on **Thursday, September 26.**

**Final Exam:** The final exam will be a comprehensive, multiple choice exam covering the entire course. **The final exam will be given on Thursday, October 24th, 5:00 pm – 7:00 pm.** The room is to be determined.

**Grading Scale:**

Homework: 25%

Weekly Quizzes: 25%

Midterm: 25%

Final: 25%

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| A | A- | B+ | B | B- | C+ | C | C- | D | F |
| 93-100% | 90-92 | 87-89 | 83-86 | 80-82 | 77-79 | 73-76 | 70-72 | 60-69 | <60 |

**Academic Integrity:**

You are encouraged to work together with others in the class, but all of the work that you submit must be substantially your own. While it is fine to get assistance, you must personally understand whatever you submit for credit. Quizzes, tests and exams must be completed by you alone.