

**WALTERS STATE COMMUNITY COLLEGE  
COURSE SYLLABUS**

**COURSE NAME AND NUMBER:** Basic Mathematics – DSPM 0700

**SEMESTER AND YEAR:**

**INSTRUCTOR:**

Mathematics Division Fax: 423-585-6873

Division Secretary: 423-585-6864

Tutoring: Mrs. Beth Dixon at [Beth.Dixon@ws.edu](mailto:Beth.Dixon@ws.edu) or 423-585-6872 or MBSS 222

or Ms. Mary Breedlove at [Mary.Breedlove@ws.edu](mailto:Mary.Breedlove@ws.edu) or 423-585-6920 or CCEN 261

Office Hours: Posted on office door. Office hours are times the instructor is on campus.

If a student needs assistance, it is recommended that they make an appointment.

**REQUIRED TEXTBOOK:** Prealgebra 3<sup>rd</sup> Edition, by Blair, Tobey, and Slater  
published by Prentice Hall

**REQUIRED TECHNOLOGY:** TI-83 or TI-84 graphing calculator required for course – discuss with instructor if you own a different graphing calculator

**CATALOG DESCRIPTION OF COURSE:**

A pre-algebra course including problem solving with fractions, percents, proportions, integers, geometry, variables, simple linear equations, tables and graphs. Satisfactory completion of this course allows the student to exit to DSPM 0800 Elementary Algebra. (Prerequisite: admission is only by the college assessment and placement procedure.)

3 credits

**COURSE OUTCOMES:**

- 1) Perform the basic operations (addition, subtraction, multiplication, division) using the order of operations on numeric expressions involving rational numbers (whole numbers, fractions, decimals, and integers) with and without using a calculator..
- 2) Evaluate expressions involving powers and roots.
- 3) Simplify algebraic expressions including using the distributive property
- 4) Evaluate algebraic expressions when given values for the variables.
- 5) Solve a linear equation in one variable involving two operations.
- 6) Write a ratio, a proportion, solve a proportion for an unknown value, and solve problems involving percents.
- 7) Determine the other equivalent forms of the number when given a fraction, decimal number, or percent.
- 8) Determine the area and perimeter (or circumference) of a triangle, rectangle, and circle.
- 9) Determine the mean, median, mode, and range for a given set of data.
- 10) Determine equivalent measure of length, weight or mass, volume, or time within the same system when given either customary or metric units of measurement.
- 11) Convert between standard notation and Scientific notations.
- 12) Solve real-world application problems that are integrated throughout the course content.
- 13) Create a table of outputs and graph for a given relation
- 14) Use graphing calculators and/or computers in learning and doing mathematics.

**COURSE CONTENT:**

## **Chapter 1: Whole Numbers and Introduction to Algebra**

- 1.1 Understanding Whole Numbers
- 1.2 Adding Whole Number Expressions
- 1.3 Subtracting Whole Number Expressions
- 1.4 Multiplying Whole Number Expressions
- 1.5 Dividing Whole Number Expressions
- 1.6 Exponents and Order of Operations
- 1.7 More on Algebraic Expressions
- 1.8 Introduction to Solving Linear Equations

## **Chapter 2: Integers**

- 2.1 Understanding Integers
- 2.2 Adding Integers
- 2.3 Subtracting Integers
- 2.4 Multiplying and Dividing Integers
- 2.5 The Order of Operations and Applications Involving Integers
- 2.6 Simplifying and Evaluating Algebraic Expressions

## **Chapter 3: Introduction to Equations and Algebraic Expressions**

- 3.1 Solving Equations in the Form of  $x + a = c$  and  $x - a = c$ .
- 3.2 Solving Equations in the Form  $ax = c$
- 3.3 Equations and Geometric Formulas

## **Chapter 4: Fractions, Ratio, and Proportion**

- 4.5 Ratios and Rates
- 4.6 Proportions and Applications

## **Chapter 5: Operations on Fractional Expressions**

- 5.1 Multiplying and Dividing Fractional Expressions
- 5.3 Adding and Subtracting Fractional Expressions
- 5.7 Solving Equations in the Form of  $x/a = c$

## **Chapter 7: Solving Equations**

- 7.1 Solving Equations Using One Principle of Equality
- 7.2 Solving Equations Using More than One Principle of Equality

## **Chapter 8 Decimals and Percents**

- 8.6 Percents
- 8.7 Solving Percent Problems Using Equations      **Either section 8.7 or 8.8 NOT both**
- 8.8 Solving Percent Problems Using Proportions
- 8.9 Solving Applied Problems Involving Percents

## **Chapter 9: Graphing and Statistics**

- 9.2 Mean, Median, and Mode
- 9.3 The Rectangular Coordinate System
- 9.4 Linear Equations with Two Variables

## **Chapter 10: Measurement and Geometric Figures**

- 10.1 Using Unit Fractions with U.S. and Metric Units
- 10.4 Square Roots and the Pythagorean Theorem
- 10.5 The Circle

**Upon successful completion of DSPM 0700 the student is prepared to enroll in DSPM 0800.**

**\*\*Please take DSPM 0800 as soon as possible. Some students delay and forget what they have learned in DSPM 0700. However, state rules do not allow students to drop back and re-take DSPM 0700 after they have passed the course.\*\***

### **COURSE GROUND RULES:**

All students attending Walters State Community College, regardless of the time and location of the class, must abide by the rules and regulations outlined in the current *Walters State Catalog/Student Handbook* and the current *Walters State Timetable of Classes*. A copy of the Catalog/Handbook and the Timetable of Classes may be obtained from the admissions office on the main campus or at any of our off-campus sites. You may also access the Catalog/Handbook on-line at the following web address: <http://www.ws.edu/catalog>

Students should attend the first day of class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class.

Plagiarism, cheating, and other forms of academic dishonesty are prohibited.

Students with disabilities must register with Student Support Services (CCEN), Room 262 (phone 423-585-6892) if they need any special facilities, services, or consideration.

Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located in the College Center (CCEN), Room 261. The phone number is 423-585-6920.

Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.

Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Admissions and Records Office will not be allowed to remain in class or receive credit for this course.

Cellular phone use during classroom interaction is prohibited. Cellular phones must be turned to the non-audible mode until after class, at which time calls can be received or checked. (See *the Walters State Catalog/Handbook*)

For information related to the cancellation of classes due to inclement weather, please check the college's Web site at [www.ws.edu](http://www.ws.edu) or call the college's student information line, 1-800-225-4770, option 1; InfoConnect, (423) 581-1233, option 1045; the Sevier County Campus, (865) 774-5800, option 9; or the Greeneville/Greene County Center for Higher Education, (423) 798-7940, option 4. Also, please monitor local TV and radio stations for weather-related announcements. For additional information on this policy see the college catalog.

In the event of a pandemic or other college declared critical event that impacts the college's ability to proceed with academic course activities as planned, the college reserves the right to alter this course plan. In the event of a pandemic or other event, please refer to the college's home web page, [www.ws.edu](http://www.ws.edu) or call InfoConnect, (423) 581-1233 for further information.

Regular class attendance is a student's obligation. (See *the Walters State Catalog/Student Handbook*) If for some reason a student misses class, it is his or her responsibility to see the instructor regarding missed assignments and/or activities and to be prepared for the next class. Excessive absences may substantially lower

the semester grade. The college requires the instructor to keep accurate records and to report when students are not attending class.

**ALTERNATE TEACHING PLAN:** In the event that classes cannot be taught in the regular classroom setting, students should go to Desire to Learn (elearn.ws.edu) to access email, course content, and assignments.

**DROP DEADLINE:**

**WEB RESOURCES:** <http://www.ws.edu>, then click online icon for WebCT and STARNET.