



Basic Mathematics - Math 91

Summer, 2010

Jeff Johnston



Course Information

Day/Time: Tuesday & Thursday, 1:00 p.m. – 3:45 p.m.

Location: WNC, Carson City Campus Room 108, Cedar

Credits: 3 **Section:** C01 **Call #:** 27529

Office Hours: Upon request. We can arrange time before or after class, online, or over the phone.

Telephone/Email: (cell / text) 775-297-5691 / scicordspam@gmail.com

Division Chair: Dr. B. Dillet, 775-445-4442 / bdillet@wnc.edu

Course Description

Math 91 explores the fundamental operation of whole numbers, fractions and mixed numbers, decimals, percentage, measurement and geometry. The course is designed to provide a thorough review of the basics needed in future mathematical courses and in applied fields.

This course is a developmental course that does not apply toward a WNC degree or honors designation and normally does not transfer to a university.

Course Objective

Upon completion of this course, the student should be able to work with the following:

- addition, subtraction, multiplication and division of whole numbers
- exponents and order of operations
- fractions and mixed numbers
- decimals
- ratio and proportion
- percent
- measurement (American and Metric units)
- geometry
- addition, subtraction of signed numbers
- applied problems

Course Materials

Required Texts: Basic Mathematical Skills with Geometry by Barrato & Bergman, **8th** edition

Additional Materials:

1. Scientific calculator. (The basic model. You should not spend much more than \$20.00)
2. Mechanical pencil with a good eraser.
3. Notebook paper and a binder to keep things organized.

Please bring your textbook, calculator and a 3-ring binder to every class session.

Course Grading and Attendance

Expect about 25 homework assignments. A short quiz based on previous assignments may be administered to check for understanding. Homework is worth 6 points. Concept check quizzes are usually worth 4 points. Midterm examinations are *tentatively* scheduled for June 29 and July 13. Midterms are worth 50 points. The final examination is worth 100 points. Because homework assignments comprise about 39% of your total grade, it is important for you to complete each assignment on time. Late homework will not be accepted for points.

Grading Scale

A = 93 – 100%	B = 83 – 86%	C = 73 – 76%	D = 63 – 66%
A- = 92 – 90%	B- = 80 – 82%	C- = 70 – 72%	D- = 60 – 62%
B+ = 87 – 89%	C+ = 77 – 79%	D+ = 67 – 69%	F = below 60%

In an effort to help students successfully complete this course, the Counseling office on campus asks faculty for names of students they feel may be in need of additional assistance. A counselor may contact you to offer some ideas on how you might successfully complete your course of study.

Attendance Policy

You are expected to attend all classes and are responsible for learning what was discussed and assigned during any class you may miss. Don't fall behind! Homework is assigned every night and collected at the start of each class. If you miss class, contact another student, or myself for the assignment. If you know you will miss a class in advance, contact the instructor to learn what topics and assignments you will be missing. In this way, you will remain caught up for the next class. No late work will be accepted for credit (see section below).

WNC policy states that students are expected to attend all classes for which they have registered. Instructors may drop any student if a student misses a number of hours greater than the number of credits to be earned in the course. **If you miss over 2 classes, you may fail this class.**

Administrative Requirements

Late Work

Late assignments are **not accepted** for credit. Students who miss class are not given extra time. If you miss class, find out what you missed, so that you will be able to turn in that assignment at the start of the next class. If you know you will miss class, be sure to get the assignment to me by dropping it off at the campus, or e-mailing it to me as a scanned PDF. If you know you will miss class on the day of a test, you can take the exam in advance for full credit. If you are absent for a midterm examination, you can earn only half credit on the make up exam.

Class Changes

The instructor retains the right to change the syllabus as the semester progresses. Students will be contacted whenever there is a change in schedule or policy.

Plagiarism and Cheating

Plagiarism involves directly quoting, summarizing, or paraphrasing the work of others without specific indication of sources, or handing in work that is not the student's own. Cheating is the unauthorized giving or receiving of information in examinations or other exercises. The grade of "0" or "F" will be given for any assignment in which plagiarism or cheating is discovered.

Students with Disabilities

If you have a disability for which you will need to request accommodations, please contact the Disability Support Services office (Bristlecone building, Room 103) as soon as possible to arrange for appropriate accommodations.

Tentative Class Schedule (subject to change)

Date	Book Sections	Content Topics
June 15 (Tuesday)	1.1, 1.2, 1.3, 1.4, 1.5	Decimals & Place Value, Basic Addition & Subtraction Rounding, Estimation, Order & Basic Multiplication
June 17 (Thursday)	1.5 1.6, 1.7	Area, Basic Skills Review Exponents, Rules of Divisibility, Order of Operation
June 22 (Tuesday)	2.1, 2.2 2.3, 2.4	Factoring, Prime & Composite Numbers, Factoring Basic Fractions & Simplifying Fractions
June 24 (Thursday)	2.5, 2.6 3.1	Multiplying & Dividing Fractions Adding & Subtracting Fractions with Like Denominators
June 29 (Tuesday)	Chapters 1 & 2 Review & Midterm	Chapters 1 & 2 Review & Midterm Examination
July 1 (Thursday)	3.2, 3.3, 3.4 3.5, 3.6	Adding, Subtracting “Unlike” Fractions & Mixed #'s. Order of Operations with Fractions, Estimation using Fractions
July 6 (Tuesday)	4.1, 4.2 4.3	Place Value & Rounding of Decimals, Decimal to Fraction Conversion Adding & Subtracting Decimals & General Review
July 8 (Thursday)	4.4, 4.5 5.1, 5.2	Multiplying and Dividing Decimals Ratios, Rates & Unit Pricing
July 13 (Tuesday)	5.3, 5.4, Chapter 3-5 Review & Midterm	Proportions, Solving Proportion Word Problems, General Review for Chapter 3 - 5 Midterm Chapters 3 - 5 Midterm Examination
July 15 (Thursday)	6.1, 6.2 6.4	Writing Percents as Fractions and Decimals Solving Percent Problems
July 20 (Tuesday)	8.1, 8.2 8.3, 8.4	Formulas for Area & Circumference, Introduction of Lines & Measuring Angles Triangles, Square Roots & Pythagorean Theorem
July 22 (Thursday)	7.1, 7.2, 7.3, 7.4 10.1, 10.2, 10.3	Metric & English Systems of Measurement Real #'s & Order, Adding & Subtracting Real #'s
July 27 (Tuesday)	10.4, 10.5 9.1, 9.2	X and \div Real #'s, Order of Operation using Real #'s Means, Medians, Modes, Tables, Pictographs & Bar Graphs
July 29 (Thursday)	9.3, 9.4, 9.5 Chapters 1 - 10	Interpreting Graphs, Summarizing & Describing Data Sets, Final Exam Review, Chapters 1 - 10
Aug 3 or 5	Final Examination	(Built in “flex” day.)