

**Syllabus of M004 for Fall 2008**  
(Text: **Prealgebra**, 3rd edition by A.S.Tussy & R.D. Gustafson)

Time	Sections	Suggested Odd Problems (Please include application problems in homework)
Part I 3.5 weeks	1.1 An Introduction to the Whole Numbers 1.2 Adding and Subtracting Whole Numbers 1.3 Multiplying and Dividing Whole Numbers 1.4 Prime Factors and Exponents 1.5 Order of Operations 1.6 Solving Equations by Addition and Subtraction 1.7 Solving Equations by Division and Multiplication 2.1 An Introduction to the Integers 2.2 Adding Integers 2.3 Subtracting Integers 2.4 Multiplying Integers 2.5 Dividing Integers 2.6 Order of Operations and Estimation 2.7 Solving Equations Involving Integers <b>Give Exam 1 during 4th week</b>	Sec. 1.1: odd 1-76 Sec. 1.2: odd 1-100 Sec. 1.3: odd 1-100 Sec. 1.4: odd 1-102 Sec. 1.5: odd 1-100 Sec. 1.6: odd 1-98 Sec 1.7: odd 1-72 <b>Q1 (1.1-1.7) 09/03</b> Sec. 2.1: odd 1-96 Sec. 2.2: odd 1- 47, 55- 63 Sec. 2.3: odd 1- 51, 53, 54, 57 Sec. 2.4: odd 1- 69 Sec. 2.5: odd 1-76 Sec. 2.6: odd 1-106 Sec. 2.7: odd 1-110 <b>Exam 1 (1.1-2.7) 09/17</b>
Part II 3.5 weeks	3.1 Variables and Algebraic Expressions 3.2 Evaluating Algebraic Expressions and Formulas 3.3 Simplifying Algebraic Expressions and the Distributive Property 3.4 Combining Like Terms 3.5 Simplifying Expressions to Solve Equations 3.6 Problem Solving, Order of Operations  4.1 The Fundamental Property of Fractions 4.2 Multiplying Fractions 4.3 Dividing Fractions 4.4 Adding and Subtracting Fractions The LCM and the GCF 4.5 Multiplying and Dividing Mixed Numbers 4.6 Adding and Subtracting Mixed Numbers 4.7 Order of Operations and Complex Fractions 4.8 Solving Equations Containing Fractions <b>Give Exam 2 during 7th week</b>	Sec. 3.1: odd 1-80 Sec. 3.2: odd 1-94 Sec. 3.3: odd 1-90  Sec. 3.4: odd 1-98 Sec. 3.5: odd 1-94 Sec. 3.6: odd Page 203: 1-50, Page207: 1-20 <b>Q2 (3.1-3.6) 10/01</b> Sec. 4.1: odd 1-104 Sec. 4.2: odd 1-100 Sec. 4.3: odd 1-80 Sec. 4.4: odd Page 255: 1-104, Page 260: 1-34  Sec. 4.5: odd 1-94 Sec. 4.6: odd 1-92 Sec. 4.7: odd 1-86 Sec. 4.8: odd Page 291: 1-96, Page 295: 1- 4 <b>Exam 2 (3.1-4.8) 10/08</b>
Part III 3.5 weeks	5.1 An Introduction to Decimals 5.2 Adding and Subtracting Decimals 5.3 Multiplying Decimals 5.4 Dividing Decimals 5.5 Fractions and Decimals 5.6 Solving Equations Containing Decimals 5.7 Square Roots ***** Literal Equations (Handout and/or Class Discussion) ***** 6.1 The Rectangular Coordinate System 6.2 Graphing Linear Equations (Include slope) 6.3 Multiplication Rules for Exponents ***** Exponents (Handout and/or Class Discussion)	Sec. 5.1: odd 1-80 Sec. 5.2: odd 1-82 Sec. 5.3: odd 1-100 Sec. 5.4: odd Page 341: 1-98, Page 344: 1-18 Sec. 5.5: odd 1-112 Sec. 5.6: odd 1-86 Sec. 5.7: odd 1-90  Handout  <b>Q3 (5.1-5.7) 10/22</b> Sec. 6.1: odd 1-48 Sec. 6.2: odd 1-66 Sec. 6.3: odd 1- 110  Handout

	<p>Division Rules for Exponents *****</p> <p>6.4 Introduction to Polynomials 6.5 Adding and Subtracting Polynomials *****</p> <p>Factoring Polynomials (Handout and/or Class Discussion) Common Factor (Handout and/or Class Discussion) Difference of Two Squares (Optional handout and/or class discussion) *****</p> <p>6.6 Multiplying Polynomials <b>Give Exam 3 during 10th week</b></p>	<p>Sec. 6.4: odd 1-64 Sec. 6.5: odd 1-80</p> <p>Handout</p> <p>Sec. 6.6: odd 1-72 <b>Exam 3 (5.1-6.5) 10/27 (Monday)</b></p>
<p>Part IV 4 weeks</p>	<p>7.1 Percents, Decimals, and Fractions 7.2 Solving Percent Problems 7.3 Applications of Percent 7.4 Interest *****</p> <p>Practice Handout on % *****</p> <p>8.1 Ratio Page 501 8.2 Proportions Page 511 8.3 American Units of Measurement 8.4 Metric Units of Measurement 8.5 Converting between American and Metric Units 9.1 Some Basic Definitions 9.2 Parallel and Perpendicular Lines 9.3 Polygons 9.4 Properties of Triangles, Pythagoras 9.5 Perimeters and Areas of Polygons 9.6 Circles 9.7 Surface Area and Volume</p> <p><b>No examinations are to be given during the last seven calendar days prior to the last scheduled day of class.</b> <b>Give Exam 4</b></p>	<p>Sec. 7.1: odd 1-98 Sec. 7.2: odd 1-70 Sec. 7.3: odd Page 469: 1-58, Page 473: 1-16 Sec. 7.4: odd Page 480: 1-48, Page 483: 1-22 Handout: <a href="http://mypage.iusb.edu/~rcook/percent_problems.txt">http://mypage.iusb.edu/~rcook/percent_problems.txt</a> <b>Q4 (6.6-7.4, factoring) 11/12</b></p> <p>Sec. 8.1: odd 1-102 Sec. 8.2: odd 1-78 Sec. 8.3: odd 1-100 Sec. 8.4: odd 1-110 Sec. 8.5: odd Page 541: 1-76, Page 544: 1-4 Sec. 9.1: odd 1-102 Sec. 9.2: odd 1-48 Sec. 9.3: odd 1-78 Sec. 9.4: odd 1-66 Sec. 9.5: odd 1-74 Sec. 9.6: odd 1-68 Sec. 9.7: odd Page 618: 1-70, Page 622: 1-12</p> <p><b>Exam 4 (8.1-9.4) 11/19</b> <b>Last day for all classes: 12/06/2008</b></p>

## **M004 Suggestions for Evaluation:**

In the September 2005 course coordination meeting for M004, we basically decided the following:

1. Keep the attendance policy at 6 days, but give a warning to students at 4 absences.
2. The calculator will NOT be used for the first 2 quizzes and exams, but could be allowed after that.
3. There will be a minimum of 4 quizzes, 3 or 4 mid-term exams, and a final exam. The final exam ought to be worth 30% to 40% of the final course grade. Extra credit and bonus points will be given only for bonus problems incorporated into the exams or attendance. Thus, the bonus problem ought to be presented on the exam. No other extra credit will be given. 5% of the total points for the course is the maximum number of bonus points allowed. An instructor may give an opportunity to help offset a poor exam score. Examples,  
    an instructor may choose to average the quiz scores together and replace the poor exam score with that score or use the final exam score to replace the poor exam score.  
    Historically, our exams have been tougher than the placement exam - be fair.
4. Note cards will not be used. Instead, the instructor will provide formulas (not sample problems) on the chalkboard or on the testing instruments as he/she sees fit.
5. There will be no common final exam.
6. Instructors will use their own discretion about giving partial credit.
7. Do not spend a lot of time on chapter 1. Parts of chapters 8 and 9 are optional.
8. Students placing at level 0 on the mathematics placement exam ought to be encouraged to attend tutoring.

Richard Cook Course Coordinator for M004

***Dr. Song: No examinations are to be given during the last seven calendar days prior to the last scheduled day of class.***