

**MATH 061. BASIC MATHEMATIC
CODE: 20160
SPRING SEMESTER 2013**

GENERAL INFORMATION

Instructor: R. Varela-Ham

Textbook: Basic College Mathematics/Elayn Martin – Gay. Fourth Edition

Building/Room: 2700/2721

Time: Monday & Wednesday 8:35 a.m – 10:00 a.m

E-mail: ruben.varela@imperial.edu

MEASURABLE COURSE OBJECTIVES

The student will demonstrate the followings:

- 1) Demonstrate skills working with whole numbers.
- 2) Demonstrate skills working with fractions.
- 3) Demonstrate skills working with decimals.
- 4) Demonstrate skills working with percents.
- 5) Solve problems involving sales tax and discounts.

STUDENT LEARNING OUTCOMES

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

- 1) Perform the basic operations with whole and non-signed rational numbers.
- 2) Perform conversions to and from fractions, decimals, and percents.
- 3) Solve application problems involving operations with non-signed rational numbers.

GRADING SCALE

90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
00 – 59 = F

GRADE DISTRIBUTION

Exam one = 15%
Exam two = 15%
Exam three = 15%
Exam four = 15%
Final exam = 25% (Mandatory)
Homework = 15%

GENERAL GUIDELINES

- 1) Late work is not accepted.
- 2) School policy: No food or beverages are allowed in the classroom.
- 3) Turn off the cellular phones inside classroom.
- 4) Bring your textbook to class every-session.
- 5) School policy: No children are allowed in the classroom.
- 6) It is your responsibility to drop before the W deadline (April 13, 2013).
Important dates: Last day to add (Jan 26), Census Date (Jan 28)
- 7) Missed assignments and exams are recorded as zeros.
- 8) You need to complete at least 80% of the total of sessions (30 Sessions)
- 9) After two unexcused absences you will be dropped. I will determine whether you may stay in the class after three. Coming late and leaving early will be counted as $\frac{1}{2}$ attendance.
- 10) Students who disrupt or interfere with my class may be sent out of the room and told to meet with the Dean of students Affairs and Campus Disciplinary Officer, before returning to continue with coursework. They will follow disciplinary procedures as outlined in the General Catalog.
- 11) Students found to have cheated on any assignment or plagiarized will receive a zero for the assignment and sent to Disciplinary Officer. A second occurrence of cheating or plagiarism may result in dismissal from class and expulsion from IVC as outlined in the General Catalog.
- 12) Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible.

COURSE CALENDAR

Week # 1 : Chapter 1. The Whole Numbers

1. Tips for Success in mathematics.
2. Place value, names for numbers, and reading tables.
3. Adding whole numbers

Week # 2 ; Chapter 1. The Whole Numbers

4. Subtracting whole numbers.
5. Rounding and estimating.
6. Multiplying whole numbers and area.
7. Dividing whole numbers
8. An introduction to problem solving
9. Exponents, square roots, and order of operations

Week # 3: Chapter 2. Multiplying and Dividing Fractions

1. Introduction to functions and mixed numbers
2. Factors and prime factorization

Week # 4: Chapter 2. Multiplying and Dividing Fractions

3. Simplest form of a fraction
4. Multiplying fractions and mixed numbers
5. Dividing fractions and mixed numbers

Week # 5: Chapter 3. Adding and Subtracting Fractions

- 1 Adding and subtracting like fractions.
- 2 Least common multiple

Week # 6: Chapter 3. Adding and Subtracting Fractions

- 3 Adding and subtracting unlike fractions.
- 4 Adding and subtracting mixed numbers.
- 5 Activity

Week # 7: Chapter 3. Adding and Subtracting Fractions

6. Order, exponents, and the order of operations.
7. Fractions and problem solving

Week # 8: Chapter 4. Decimals

1. Introduction to decimals
2. Order and rounding
3. Adding and subtracting decimals

Week # 9: Chapter 4. Decimals

4. Multiplying decimals and circumference of a circle
5. Dividing decimals and order of operations
6. Fractions and decimals

Week # 10: Chapter 5. Ratio and Proportion

1. Ratio
2. Rates
3. Activity

Week # 11 : Chapter 5. Ratio and Proportion

- 4. Proportions**
- 5. Proportions and problem solving**

Week # 12: Chapter 5. Ratio and Proportion

- 6. Group activity: Sections 5.1 – 5.4**

Week # 13 : Chapter 6. Percent

- 1. Introduction to percent**
- 2. Percents and fractions**

Week # 14; Chapter 6. Percent

- 3. Solving percent problems using equations.**
- 4. Solving percent problems using proportions.**
- 5. Applications of percent**

Week # 15 : Chapter 6. Percent

- 6. Percent and problem solving: Sales tax, Commission, and Discount.**
- 7. Percent and problem solving: Interest**

Week # 16: Final Exam

**Holidays: January 21 (Martin Luther King Day)
 February 18 (President's Day)
 April 1 – 6. Spring Recess**

Sessions: 16 Weeks

Last day: May 8, 2013