

Tentative Syllabus Mat 060 Essential Mathematics

Instructor: _____

Office: _____

Office Hours: _____

Office Phone: _____

COURSE DESCRIPTION

This course is a comprehensive study of mathematical skills, which should provide students with a strong mathematical foundation to pursue further study. Topics include principles and applications of decimals, fractions, percents, ratio and proportion, order of operations, geometry, measurement, and an introduction to algebra and statistics. Upon completion, students should be able to perform basic computations and solve relevant, multi-step mathematical problems using technology where appropriate. *This course does not carry credit towards an associate degree.*

COURSE OBJECTIVES

At the completion of this course, the student should be able to model and solve application problems while learning to

1. Add, subtract, multiply, and divide fractions and decimals
2. Utilize the correct order of operations
3. Evaluate powers and roots
4. Convert between fractions, decimals, and percents
5. Express ratios and solve proportions
6. Solve percent problems using the percent equation or the proportion method
7. Use unit analysis within the U.S. system and the within the metric system
8. Describe and define lines, angles, and basic geometric figures
9. Calculate the perimeter, area and volume of basic geometric figures
10. Apply the Pythagorean Theorem
11. Add, subtract, multiply, and divide signed numbers
12. Solve simple linear equations in the form of $ax + b = c$

13. Determine mean, median, and mode
14. Interpret basic statistical graphs
15. Use appropriate technology

ADDITIONAL OBJECTIVES

In this course, students should develop the ability to

1. Learn, read, write, listen, and speak mathematically.
2. Estimate reliably, formulate an answer, and judge the reasonableness of the results.

EVALUATION

If you satisfactorily complete all mastery tests with a grade of 80 or better you can take the final exam. The final exam will be comprehensive. You are not required to make a particular score on the final exam; however, the final exam will be a part of your average in the course. There will be no retest on the final exam. Grades will be computed as follows:

Mastery Test	65%
Final Exam	30%
Lab	5%

*Students who are not making satisfactory progress toward mastery may be referred the Academic Support Center (Room 1-115) and/or Student Support Services for additional skill building.

Mastery Tests

Mastery tests will be cumulative. There will be questions on the new material just covered as well as previously covered material. Therefore, the student is responsible for the previously covered material without an in-class review of that material.

GRADING SCALE

A = 90 – 100
B = 80 – 89
C = 70 – 79

- IP = Attended regularly and completed required number of assignments and test at mastery level by the last day to drop, but did not successfully complete the assignments and tests scheduled after the last day to drop. (See daily syllabus for required assignments and date of last day to drop.)
- R = Does not have a C average or better.
- I = Lacks mastery level skills in one or more areas.

- W = Officially withdrew from course.
WF = Stopped attending, but did not officially withdraw.
F = Did not complete required number of assignments at mastery level by last day to drop. (See daily syllabus for required assignments and date of last day to drop.)

ATTENDANCE POLICY

Students are expected to be in class on time and are expected to attend all classes. A student must attend a minimum of 90 percent of the total class hours in order to receive a passing grade. After missing five (5) hours of class time, you will receive a warning letter. After missing eight (8) hours of class time, you may be dropped from the course. It is important that you communicate with your instructor concerning any absences. You are responsible for any material missed while you were out and should plan on making-up assignments as required by your instructor. Any work that is made up cannot be used to erase any absences on the part of the student.

Some sections of Mat 060 are web-enhanced, allowing you to access handouts and course assignments as required by your instructor.

Students who cannot adhere to the attendance policy must officially withdraw from class(es) in Student Services to avoid a possible failing grade. (See BCCC Catalogue for withdrawal procedures.)

RESOURCES: There is no charge for the use of any of these resources.

Special Populations – BCCC complies with the Americans with Disabilities Act and Section 504. If you have a disability such as visual or hearing impairment or learning difficulties, please contact Dawn Holden, Special Populations Coordinator, for information concerning assistance. She is located in Building 9 Room 923; her phone number is 940-6351.

Academic Support Center – Room 1-115, James Casey is the Coordinator for the Academic Support Center. He can assist you with computing needs and re-testing for any of your developmental classes. Also, math instructors will be available in the Academic Support Center at certain hours each day. Hours are posted by the door of the Academic Support Center.

Reading Tutors – Tutoring for Reading is located in Room 1-113. See your reading instructor if you need a tutor for Reading.

Counselor – Building 9 Room 921. Sue Brookshire can advise you if you have problems, personal or academic.

Academic Tutoring – Student Support Services on the ground floor of Building 5 has tutors for Math, English, Accounting, etc. Please contact Mrs. Kimberly Mullis in Building 5, Room 1 for more information on tutoring for anything other than reading.

Video Tapes – Video tapes for Math 060 are available for check out in the Library and Academic Support Center. These tapes contain detailed lessons on each section in your Math book.

TEXTBOOK AND REQUIRED MATERIALS

Marvin L. Bittinger, Basic Mathematics 9th ed. Addison Wesley Longman, 2002

A basic hand-held calculator (A scientific calculator with a fraction button is recommended.)

CONTACT/CREDIT HOURS

Contact hours—5

Credit hours—4

Prerequisite—Placement Test Score