

Bossier Parish Community College

Master Syllabus

Course Prefix and Number: MATH 097

Credit Hour: 3

Course Title: Basic Mathematics

Course Prerequisites: Placement based on test results achieved on appropriate diagnostic instruments.

Textbook: Martin-Gay, Elayn. Developmental Mathematics, 3rd edition. Pearson, 2015.

Course Description: Review of basic mathematics skills. Include the fundamental numeral operations of addition, subtraction, multiplication, and division of whole numbers, fractions, decimals, and integers; ratios and proportion, percent, systems of measurement, and an introduction to geometry.

Learning Outcomes:

At the end of this course, the student will

- A. perform operations on whole numbers;
- B. perform operations of fractions and mixed numbers;
- C. perform operations of decimals;
- D. use percent as a ratio and as a fraction;
- E. perform operations on real numbers.

To achieve the learning outcomes, the student will

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. add whole numbers; (A)
2. subtract whole numbers; (A)
3. multiply whole numbers; (A)
4. divide whole numbers; (A)
5. calculate perimeter of polygons; (A)
6. average whole numbers; (A)
7. perform order of operations on whole numbers; (A)
8. solve application problems involving all operations of whole numbers; (A)
9. rounding whole numbers to appropriate place value; (A)
10. convert between fractions and mixed numbers; (B)
11. simplifying fractions to lowest terms; (B)
12. multiply fractions and mixed numbers; (B)
13. divide fractions and mixed numbers; (B)
14. add and subtract fractions with common denominators; (B)
15. find a common denominator; (B)
16. add and subtract fractions with unlike denominators; (B)
17. add and subtract mixed numbers; (B)
18. ordering and comparing fractions; (B)
19. perform order of operations on fractions; (B)
20. solve application problems involving all operations of fractions and mixed numbers; (B)
21. ordering, comparing, and rounding decimals; (C)
22. add decimals; (C)
23. subtract decimals; (C)
24. multiply decimals; (C)

25. divide decimals; (C)
26. find the circumference of a circle; (C)
27. write decimals as fractions; (C)
28. write fractions as decimals; (C)
29. perform order of operations on decimals; (C)
30. solve application problems involving all operations of decimals; (C)
31. write ratios as fractions; (D)
32. solve proportions; (D)
33. write percents as decimals; (D)
34. write decimals as percents; (D)
35. write percents as fractions; (D)
36. write fractions as percents; (D)
37. solve application problems involving percent; (D)
38. add real numbers; (E)
39. subtract real numbers; (E)
40. multiply real numbers; (E)
41. divide real numbers; (E)
42. perform mixed operations on real numbers; (E)

Course Requirements: All students are required to take a comprehensive final examination.

Course Grading Scale:

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

Attendance Policy: The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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