LS M07B: BASIC MATH SKILLS II

Originator

slbassi

Co-Contributor(s)

Name(s)

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College

Moorpark College

Discipline (CB01A)

LS - Learning Skills

Course Number (CB01B)

M07B

Course Title (CB02)

Basic Math Skills II

Banner/Short Title

Basic Math Skills II

Credit Type

Credit

Start Term

Spring 2020

Catalog Course Description

Develops further foundational math concepts for students with math anxiety, or who have difficulty understanding and applying mathematical concepts. Includes percents, proportions, measurement, signed number arithmetic, and basic algebra. Expands on previous math test-taking strategies and mnemonic skills for learning and recalling math operations that can be used in subsequent math courses.

Additional Catalog Notes

Provides instruction designed to meet the educational needs of students with or without disabilities. Does NOT apply to Associate Degree.

Taxonomy of Programs (TOP) Code (CB03)

4930.32 - Learning Skills, Learning Disabled

Course Credit Status (CB04)

C (Credit - Not Degree Applicable)

Course Transfer Status (CB05) (select one only)

C (Not transferable);

Course Basic Skills Status (CB08)

B - The Course is a Basic Skills Course

SAM Priority Code (CB09)

E - Non-Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

S - The Course is an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

2 - Not Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

Will not be required

Grading method

Letter Graded

Alternate grading methods

Student Option- Letter/Pass Pass/No Pass Grading

Does this course require an instructional materials fee?

Νo

Repeatable for Credit

Nο

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

52.5

Maximum Contact/In-Class Lecture Hours

52.5

Activity

Laboratory

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

52.5

Total Maximum Contact/In-Class Hours 52.5

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class Minimum Outside-of-Class Hours 105 Maximum Outside-of-Class Hours 105

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
157.5
Total Maximum Student Learning Hours
157.5

Minimum Units (CB07)

3

Maximum Units (CB06)

3

Advisories on Recommended Preparation

LS M07A - Basic Math Skills I

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	prepare for upcoming exams by creating a pre-test for the exam.
2	fill out a Grade Monitor with their returned tests and assignments. At the end of the semester, they will be able to determine how many points they need on the final exam to get the grade they want in the class.
3	understand the financial ramifications of borrowing money when Simple Interest is applied.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	organize and manage an academic binder.
2	apply learning styles and strategies.
3	apply strategies to reduce math test anxiety.
4	use mnemonic strategies to remember math formulas.
5	set up and simplify ratios.
6	solve proportions.
7	select between decimals, fractions, and percents.
8	solve word problems involving proportions, percents, and simple interest.
9	evaluate units of measurement within both the U.S. and metric systems.
10	differentiate between the U.S.and metric systems of measurement and systems of temperature measurement.
11	solve mean and median problems.
12	solve addition, subtraction, multiplication and division problems using signed numbers.

apply the order of operations when solving algebraic problems.

14 solve equations using the properties of addition, subtraction, multiplication, and division.

15 solve algebraic word problems.

Course Content

Lecture/Course Content

1. (15%) - Organization and Study Skills

Binder organization

Learning styles and strategies

Test anxiety

Mnemonic strategies

2. (25%) - Ratios, Proportions, and Percents

Ratios

Proportions

Percents

Converting between decimals, fractions, and percents

Applications involving proportions, percents, and simple interest

3. (35%) - Algebra

Signed numbers

Adding, subtracting, multiplying, and dividing signed numbers

The order of operations

Properties of algebra

Solving equations using the addition, multiplication, and division

properties

Algebraic word problems

4. (25%) - Measurement and statistics

The U.S. system of measurement

Conversions between metric and U.S. systems of measurement

Percents

Mean and median

Laboratory or Activity Content

Group in-class assignments related to the daily lesson.

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises

Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Classroom Discussion

Group projects

Individual projects

Objective exams

Projects

Problem-solving exams

Participation

Skills demonstrations

Skill tests

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Collaborative group work

Clinical demonstrations

Class activities

Class discussions

Instructor-guided use of technology

Lecture

Small group activities

Describe specific examples of the methods the instructor will use:

Professor will lecture new content using flashcards and multiple color markers to express steps of solving equations.

Representative Course Assignments

Writing Assignments

- · Create pre-tests in advance of an exam by using topics from their study guide.
- Write step-by-step math procedures on flashcards using mnemonics.
- Complete homework problems selected from the textbook such as writing out the process related to word problems involving mean and median.

Critical Thinking Assignments

- Use mnemonic skills to recall algebraic sequences.
- · Utilize study guides to prepare for upcoming exams.
- Distinguish between different methods of solving math word problems.

Reading Assignments

- · Read sections in the book on such topics as how to set up a simple interest problem.
- Read the sections in the book that apply to the next meeting's topic.

Skills Demonstrations

- · Demonstrate how to prepare and study for exams by creating note cards.
- · Demonstrate the ability to create a pretest using the study guide provided.

Outside Assignments

Representative Outside Assignments

- Assigned homework problems selected from the textbook.
- Access and create student-generated flashcards on topics such as addition, subtraction, multiplication, and division problems using signed numbers.
- · Assigned reading material from the textbook such as how to set up a problem involving simple interest.

Articulation

Comparable Courses within the VCCCD

LS R016B - Fundamentals of Mathematics II

Textbooks and Lab Manuals

Resource Type

Textbook

Classic Textbook

Yes

Description

Staszkow, Ronald. Math Skills: Arithmetic with Introductory Algebra and Geometry. 7th ed. Kendall Hunt, 2008.

Resource Type

Textbook

Classic Textbook

Nο

Description

Tussy, Alan, and Diane Koenig. Basic Mathematics with Early Integers. 6th ed. Cengage, 2018.

Resource Type

Textbook

Description

Tobey, John, et al. Basic College Mathematics. 8th ed. Pearson, 2017.

Library Resources

Assignments requiring library resources

None

Sufficient Library Resources exist

Yes

Primary Minimum Qualification

SPECIAL EDUCATION

Review and Approval Dates

Department Chair

10/28/2019

Dean

10/28/2019

Technical Review

11/07/2019

Curriculum Committee

11/19/2019

DTRW-I

MM/DD/YYYY

Curriculum Committee

MM/DD/YYYY

Board

MM/DD/YYYY

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12/04/2019

Control Number

CCC000434262

DOE/accreditation approval date

MM/DD/YYYY