

DEVELOPMENTAL MATHEMATICS

3-0-3

Date: 8/6/10

COURSE NUMBER: MAT 032 (Online)**PREREQUISITE(S):** MAT 031**CO-REQUISITE(S):** None**COURSE DESCRIPTIONS** Developmental Mathematics includes a review of arithmetic skills, and focuses on the study of measurement and geometry, basic algebra concepts, and data analysis. Application skills are emphasized.**TEXTBOOK(S):** Martin-Gay, Elayn, Basic College Mathematics with Early Integers, Upper Saddle River, New Jersey, Prentice-Hall, 2007.

ISBN: 0321650190

REFERENCE(S): None**OTHER REQUIRED MATERIALS, TOOLS, AND EQUIPMENT:** Students need 2 loose-leaf notebooks (one to hold textbook pages and the other for printed materials such as syllabus and homework), three-hole punch, paper, pencils, and a scientific calculator with a fraction key.

Students need a PC or Mac with internet access. The course is offered in CourseCompass.

CourseCompass is tested with and supports the following operating systems and browser configurations.

Windows® 2000	Internet Explorer®, Version 6.0 Netscape® Navigator®, Version 7.2
Windows XP	Internet Explorer, Version 6.0 Internet Explorer, Version 7.0 Firefox 1.5 and 2.0
Windows Vista	Internet Explorer, Version 7.0
Macintosh® OS 10.3	Firefox 2.0 Safari 2.0
Macintosh OS 10.3 x	FireFox 1.5 and 2.0 Safari 2.0
Macintosh OS 10.4	Netscape Navigator, Version 7.2 FireFox 1.5 and 2.0 Safari 2.0

* If you have earlier versions of these browsers, you can download a newer version from the appropriate manufacturer's website:

For Internet Explorer, go to <http://www.microsoft.com>

For Communicator or Navigator, go to <http://www.netscape.com>

For Firefox, go to <http://www.getfirefox.com>

For Safari, go to <http://www.apple.com>

METHOD OF INSTRUCTION:

This course is taught using the textbook, online lectures, tutorial animations, graded homework assignments, quizzes, instructor guidance, and instructor/student communication. The student should use a calculator in MAT 032. The [Learning Center](#) (E-2) provides tutoring to enhance the students' learning. The [Pearson Tutor Center](#) also provides tutoring from Sunday through Thursday 5pm until midnight that you may access from anywhere.

GRADING SYSTEM:

93	-	100	=	A
85	-	92	=	B
75	-	84	=	C
Below		75	=	F

GRADE CALCULATION METHOD:

Tests	=	60%
Homework and Quizzes	=	10%
Final Exam	=	<u>30%</u>
	=	100%

CONFIDENTIALITY:

All students' e-mail addresses may be available to other students in the class. Although some assignments in an online course may encourage or require peer communication, the instructor will make every effort to protect the confidentiality of any personal communication (for example, grades). However, you should recognize that e-mail and other electronic media are not secure; there is no guarantee of the privacy of your e-mail or other personal information.

APPROPRIATE ONLINE BEHAVIOR:

The use of Spartanburg Community College's website, e-mail service or course management software for creation and/or distribution of material not pertaining to course participation is prohibited and is grounds for dismissal according to College policy under "disruptive behavior." Such actions, include, but are not limited to:

- Inappropriate use of email and discussion boards for:
 - ü Harassment
 - ü Unlawful solicitation
 - ü "Spamming"
 - ü "Flaming"
- Use of online editing tools within the course management software to:
 - ü Create offensive material
 - ü Link to inappropriate materials

ATTENDANCE POLICY:

A student should register in [CourseCompass](#) before or during the first scheduled day of the term. If a student has not registered in CourseCompass by the end of the drop/add period, the instructor will drop the student from the course. Instructors maintain attendance records. In this online course, attending class is considered to be completing the assignment for the day.

It is the student's responsibility to withdraw from a course. A student who stops attending the online class and fails to initiate a withdrawal will remain on the class roster. *With this in mind, for every assignment, test or exam not completed while still enrolled in the course the student will receive a grade of zero and the final course grade will be calculated accordingly.*

Withdrawal Policy: During the first 75% of the course, a student may initiate withdrawal and receive a grade of W. A student cannot initiate a withdrawal during the last 25% of the course. Extenuating circumstances require documentation and approval by the appropriate department head and academic dean.

ACADEMIC CONDUCT:

ACADEMIC DISHONESTY: Students are expected to uphold the integrity of the College's standard of conduct, specifically in regards to academic honesty. All forms of academic dishonesty including, but not limited to, cheating on assignments/tests, plagiarism, collusion, and falsification of information will call for disciplinary action. Disciplinary action imposed may include one or more of the following: written reprimand, loss of credit for assignment/test, termination from course, and probation, suspension, or expulsion from the College. For further explanation of this and other conduct codes, please refer to the Student Handbook.

Class/Lab Procedures:

Students should e-mail the instructor the week before class starts to receive information on how to enter the course. Students will be required to take tests and the final exam in the [Testing Center](#) on the Spartanburg Community College Central Campus, the Cherokee County Campus, the Union Campus or the Tyger River Campus. There will be three chapter tests and a cumulative final exam given. If a student is registered for the course via Tech On-Line, on-site testing arrangements must be made with the closest technical college or other authorized testing center prior to the start of class or within the first three days of class.

ACCOMMODATIONS:

Students who need special accommodations in this class because of a documented disability should notify Student Disability Services. You may contact Student Disability Services by calling, (864) 592-4818, toll-free 1-800-922-3679; via email through the Spartanburg Community College web site at www.sccsc.edu/SDS/; or by visiting the office located in the Dan Lee Terhune Student Services Building, room 112 of the Spartanburg Community College campus. By contacting Student Disability Services early in the semester, students with disabilities give the College an opportunity to provide necessary support services and appropriate accommodations.

COURSE Outcomes & OBJECTIVES:

Upon satisfactory completion of this course, the student will be able to:

- I. Use algebraic processes to solve problems.
 - A. Evaluate algebraic expressions.
 - B. Combine like terms.
 - C. Use the Distributive Property to multiply.
 - D. Solve one-step equations using the addition and multiplication properties of equality.
 - E. Solve two-step equations using the addition and multiplication properties of equality.
 - F. Solve equations involving like terms.
 - G. Solve equations using the distributive property to remove parentheses.
 - H. Use algebra to solve application problems.

- II. Solve problems involving ratio, proportions, measurement, and percents.
 - A. Write ratios and rates as simplified fractions.
 - B. Find unit rates and unit prices.
 - C. Write statements as proportions.
 - D. Determine whether or not a proportion is true.
 - E. Use algebra to solve proportions.
 - F. Use proportions to solve application problems.
 - G. Convert between US and Metric units of length, weight, mass, and capacity.
 - H. Add and subtract measurements.
 - I. Convert between percents, fractions, and decimals.
 - J. Use algebraic equations to solve percent problems.
 - K. Solve percent application problems.

- III. Use geometric concepts to solve problems.
 - A. Identify basic geometric concepts and figures.
 - B. Solve word problems involving basic geometric concepts and figures.
 - C. Find the perimeter or circumference of a polygon, circle, or composite figure.
 - D. Solve word problems involving perimeter or circumference.
 - E. Find the area of a polygon, circle, or composite figure.
 - F. Solve word problems involving area.
 - G. Find the square root of a number.
 - H. Use the Pythagorean Theorem to find an unknown side of a right triangle.

- IV. Use statistics to solve problems.
 - A. Find the mean for a set of data.
 - B. Find the median for a set of data.
 - C. Find the mode for a set of data.

**GENERAL
EDUCATION
OUTCOMES**

Upon satisfactory completion of this course, the students should be able to demonstrate

- I. their ability to express themselves effectively in quantitative and qualitative terms.

