

DEVELOPMENTAL MATHEMATICS

3-0-3

Date: 1/17/12

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. 2nd edition. Upper Saddle River, New Jersey: Pearson 2012.

ISBN: 0-321-65019-0

REFERENCE(S): None

OTHER REQUIRED MATERIALS, TOOLS, AND EQUIPMENT: Students need a loose-leaf notebook for printed materials such as the syllabus and homework, a three-hole punch, paper, pencils, and a scientific calculator with a fraction key. Students, who buy an unbound copy of the textbook, will need a second loose-leaf notebook to hold textbook pages.

Students need a PC or Mac with internet access.

System Requirements

To work with MyMathLab, the following operating system and browser* configurations are supported:

Windows 7 with Internet Explorer 8

Windows 7 with Internet Explorer 7

Windows 7 with Firefox 3.6

Windows XP with Internet Explorer 8

Windows XP with Internet Explorer 7

Windows XP with Firefox 3.6

Windows Vista with Internet Explorer 8

Windows Vista with Internet Explorer 7

Windows Vista with Internet Firefox 3.6

Mac OS 10.6 with Safari 5

* Microsoft recently released Internet Explorer 9 (IE9). At this time, MyMathLab does not support IE9. However, IE9's Compatibility View feature lets you use MyMathLab on IE9. To set it up, read our 24/7 Support article, [Compatibility View](#).

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

- For Firefox, go to <http://www.getfirefox.com>.
- For Internet Explorer, go to <http://www.microsoft.com>.
- For Safari, go to <http://www.apple.com>.

AOL and AT&T Yahoo users: You cannot view MyMathLab using the AOL or AT&T Yahoo browsers. You can, however, use AOL or AT&T Yahoo as your Internet Service Provider to access the Internet, and then open one of the supported browsers within AOL or AT&T Yahoo to access MyMathLab.

Connection speed

MyMathLab requires an Internet connection with a minimum connection speed of 28.8 kbps (kilobits per second). The faster your connection, the faster you will be able to view this site and some of your course's content. If you are experiencing slow download times, you may need a faster connection.

Browser settings: Cookies and JavaScript options

MyMathLab uses cookies and JavaScript technology. Both of these features must be turned on in your browser, and are usually turned on by default. For instructions on how to view or change these browser options, see your browser Help.

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 does use a calculator in MAT 032.** The [Learning Center](#) (E-2) provides tutoring on campus to enhance the students' learning.

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:
 - ✓ Harassment
 - ✓ Unlawful solicitation
 - ✓ "Spamming"
 - ✓ "Flaming"
- Use of online editing tools within the course management software to:
 - ✓ Create offensive material
 - ✓ Link to inappropriate materials

ATTENDANCE POLICY:

A student should register in [MyMathLab](#) before or during the first scheduled day of the term. If a student has not registered in MyMathLab by the end of the drop/add period, the instructor will drop the student from the course. Registering in MyMathLab is equivalent to attending the first day of class.

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 four 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 by calling (864) 592-4818, toll-free 1-800-922-3679; via email through the SCC web site at www.sccsc.edu/resources/disabilities; or by visiting the office located in the East Building Room 30-B on the SCC Central campus. Contacting Student Disability Services early in the semester gives 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, and measurement.
 - 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.

- III. Solve problems involving percents.
 - A. Convert between percents, fractions, and decimals.
 - B. Use algebraic equations to solve percent problems.
 - C. Solve percent application problems.

- IV. 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 volume and surface area of solids.
- H. Solve word problems involving solids.
- I. Find the square root of a number.
- J. Use the Pythagorean Theorem to find an unknown side of a right triangle.

- V. 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.