

Montgomery College  
 MA 131 Course Outcomes  
*Approved Spring 2008*

#	<i>Outcome: Upon completion of this course/program a student will be able to:</i>
	<b>Proportions, Percents and Real Numbers</b> The student will be able to:
1.	Employ different methods for solving problems involving proportions and percents.
2.	Employ procedures for mental computation and estimation of percents.
3.	Know about decimal representations of rational and irrational numbers.
4.	Know properties of the real number operations.
5.	Know the relationships among whole numbers, integers, rationals, irrationals and reals.
	<b>Introductory Geometry</b> The student will be able to:
6.	Describe, compare, classify, and draw plane and space figures.
7.	Explain the sum of angle measures in a polygon and compute the measures of specific angles.
8.	Use technology to study plane figures.
9.	Interpret statements that use geometric terminology.
	<b>Congruence, Symmetry, and Similarity</b> The student will be able to:
10.	Perform transformations and relate them to congruence, symmetry, and similarity.
	<b>Measurement</b> The student will be able to:
11.	Know common metric benchmarks for length, mass, and capacity and make conversions within the metric system.
12.	Develop basic area formulas and the Pythagorean Theorem in a deductive sequence and use these formulas to compute area and length.
13.	Know the relationship among the formulas for the volume of prisms, cylinders, pyramids, and cones.
14.	Know how to find the surface area of prisms and cylinders.
	<b>Algebra</b> The student will be able to:
15.	Translate among multiple representations of a function.
16.	Recognize various representations and change patterns of linear and nonlinear functions.
17.	Solve problems with tables, graphs, and equations.