

Montgomery College
 MA 182 Course Outcomes
Approved Spring 2008

#	<i>Outcome: Upon completion of this course/program a student will be able to:</i>
	Techniques of Integration The student will be able to:
1.	Evaluate integrals by using the appropriate techniques.
2.	Approximate definite integrals by using appropriate numerical techniques.
	Indeterminate Forms and Improper Integrals The student will be able to:
3.	Find limits involving indeterminate forms.
4.	Evaluate improper integrals.
	Applications of Integration The student will be able to:
5.	Set up, evaluate, and interpret integrals that represent arc length, area, volume, and average value.
6.	Set up, evaluate, and interpret integrals that model applications in physics.
	Differential Equations The student will be able to:
7.	Solve selected differential equations using graphical, numerical, and analytic methods.
8.	Model applications such as population growth with differential equations.
	Infinite Sequences and Series The student will be able to:
9.	Determine the convergence or divergence of sequences and series.
10.	Represent functions with power series and approximate functions with Taylor polynomials.
	Polar Coordinates The student will be able to:
11.	Graph polar equations.
12.	Use integration to find the area of a polar region.
	Technology The student will be able to:
13.	Use technology as an appropriate tool.