

Montgomery College  
MA 113 Course Outcomes  
*Approved Spring 2008*

#	Outcome
	The student will be able to:
1.	For a given experiment, understand and distinguish between an equally probable sample space and an unequally probable sample space, and use them to calculate probabilities.
2.	Understand and distinguish between permutations and combinations, and use them to calculate probabilities.
3.	Identify and apply the appropriate rules for probability calculations.
4.	Use simulations to estimate probabilities.
5.	Understand and distinguish between complementary, mutually exclusive and independent events.
6.	Interpret probabilities.
7.	Construct and use probability distributions.
8.	Use tree diagrams or Venn diagrams to calculate probabilities.
9.	Compute probabilities based on normal, binomial, and geometric distributions.
10.	Use technology to discover, explore, illustrate and understand probabilities.