



Douglas
College

EFFECTIVE: JANUARY 2009
CURRICULUM GUIDELINES

A.

M: Course Objectives / Learning Outcomes

At the end of the course, the successful student should be able to:

1. collect statistical data using appropriate sampling techniques;
2. organize statistical data and calculate measures of central tendency and variation;
3. calculate the probability of events when they are mutually exclusive, independent and dependent;
4. use binomial and normal distribution to make probability estimates;
5. set up confidence intervals for population means and proportions;
6. use sample information to test statements or claims about parameters;
7. use computer spreadsheets to solve statistical problems;
8. use simple regression to determine significance of relationship between two variables.

N: Course Content:

1. Descriptive Statistics: frequency distributions, graphical displays, measures of central tendency, measures of dispersion.
2. Probability: experiments, counting rules, assigning probabilities, events, complement, exclusion, intersection, union, addition law, conditional probability.
3. Discrete Probability Distributions: expected value and variance, binomial distribution.
4. Continuous Probability Distributions: uniform and normal probability distributions.
5. Sampling Distributions: random /F1 9.96 T-5(m)19().utectivk



Q: Means of Assessment

Final Exam	30%
Term Examinations (2-3)	40% - 50%
Computer Lab Test	5% - 10%
Assignments (6-12)	15% - 25%