

# North Hennepin Community College

## MATH 0990: Statway Statistics I

### A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites:

This course requires any of these four prerequisites

MATH 0800 - Pre-Algebra (Minimum grade: 1.67 GPA Equivalent)

A score of 1 on test Exempt from taking Math placement test

A score of 55 on test Accuplacer Elementary Algebra

A score of 75 on test Accuplacer Arithmetic

Corequisites: None

MnTC Goals: None

This is the first course in a two-course sequence. Students in this course are required to take the following course, Math 1090 in the following semester. Topics for both courses include concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, and chi-square tests. Prerequisite: Math 0800 or Placement Test

**B. COURSE EFFECTIVE DATES:** 05/31/2013 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. See Course Description and Course Outcomes.

### D. LEARNING OUTCOMES (General)

1. Develop and apply the concepts of numeracy to investigate and describe quantitative relationships and solve problems in a variety of contexts. (Goal 1d)
2. Represent proportional relationships and solve problems that require an understanding of ratios, rates, proportion and scaling. (Goals 1d, 2b)
3. Reason using the language and structure of algebra to investigate, represent, and solve problems. (Goal 1a, b, d)
4. Understand functions as a way of modeling a correspondence between two variables (Goals 1a, b, d, 2c)
5. Represent functions in various ways: verbally, algebraically, and graphically. (Goal 1b, d)
6. Understand the data analysis process and the characteristics of well-designed statistical studies. (Goals 1d, 2a, b,d)
7. Demonstrate the use of distributional thinking to reason about data in order to describe and summarize distributions of data, identify trends and patterns, judge the fit of a model, and describe similarities and differences in comparing distributions. (Goals 1d, 2c, d)

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

## **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

## **G. SPECIAL INFORMATION**

1. Knowledge of Human Cultures and the Physical and Natural World--Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.
2. Intellectual and Practical Skills--Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.
4. Integrative and Applied Learning--Including: Synthesis and advanced accomplishment across general education, liberal studies, specialized studies and activities in the broader campus community.