MATH 115B - Mathematics for the Hospitality/Gaming Industry (3 Credits)

DESCRIPTION:

Using data and examples relevant to the hospitality/gaming industry, students will use an applied approach to learn math skills relevant to this industry. Topics covered will include fractions, decimals, geometry, percent, ratio and proportions, probability and statistics. The use of computers and calculators will be integrated into the applications. Students will work in "teams" on some projects and activities.

TEXT:

Math for Hotel/Catering Industry, Robin Grenz
NOTE: Full-time instructors have the right to use no text or a different text.

OUTLINE:

Class 01 - Introduction
Class 02 - Whole numbers & problem solving
Class 03 & 04 - Fractions
Class 05 & 06 - Decimals
Class 07 - Summary activities & project
Class 08 - Conversions & review project
Class 09 - Percents & activities
Class 10 - Ratios & proportions
Class 11 - Summary activities & project
Class 12 - Review project
Class 13 - Measurement & activities
Class 14 - Project
Class 15 - Exponents, Order of Operation, geometry
Class 16 - Geometry class activities
Class 17 - Project
Class 18 - Review project
Class 19 - Review
Class 20 - Probability
Class 21 - Project
Class 22 & 23 - Statistics
Class 24 & 25 - Statistics
Class 26 - Statistics
Class 27 - Word problem activities
Class 28 - Word problem project
Class 29 - Present project
Class 30 - Final

OUTCOMES:

a. Perform computations on whole numbers, fractions and decimals, both with and without the use of calculators.
b. Perform computations with ratio, proportion and percent.
c. Compute perimeters, areas and volumes of basic geometric shapes and use the Pythagorean Theorem.
d. Compute within and between English and metric measurements.
e. Calculate probabilities and apply to gaming odds.
f. Collect data pertinent to hospitality/gaming, calculate various measures of central tendency and present data in a variety of forms.
g. Write and solve word (applied) problems from the hospitality/gaming industry using all the above skills.

EVALUATION:

Grades will be determined by student performance in one or more of the following areas: in-class tests, take-home tests, homework assignments, quizzes, special projects, papers, attendance, and class participation. Degree of importance and types of assessment used will depend on the instructor. However, at least 50% of the course grade used is to be determined by proctored individual exams/assessments.

This course satisfies or partially satisfies the Math component of a degree or certificate program at CSN.

Updated 12/11/2006