Mendocino College

COURSE LEVEL STUDENT LEARNING OUTCOMES

Term Effective:	Spring (Semester)	2008 (Year)
Title:	Statistics *(limit to 50 characters including spaces)*	Course Number: MTH 220
Initiator:	Roger Ahders	Date Submitted: 11/20/2007

Units Min:	4.00	*If this is a variable unit course, then the relationship between units and any difference in expected SLO's should be explained.*
Units Max:	4.00	

Lecture Hours:	4.00 to 4.00	Lab Hours:	0.00 to 0.00	Activity Hours:	0.00 to 0.00

Student Learning Outcomes: *(Enter the SLO's in an outline format. Use the Ctrl + Tab keys to indent for subtopics.)*

- Understand and be able to apply measures of central tendency, variation, and position, and know how to calculate them manually and using technology.
- Demonstrate understanding of the principles of probability, and be capable of creating sample spaces and contingency tables, using appropriately the multiplication rule of counting, permutations and combinations, and generating probability distributions for random variables.
- Know the meaning of point estimation and confidence intervals, and be able to find such estimates and intervals for estimating the population mean and proportion.
- Master the procedure of significance testing, and be able to perform such tests on claims about the population mean, proportion, and standard deviation.
- Comprehend the uses of correlation and regression analysis, including the calculation of residuals.

SIGNATURES / APPROVALS:

Instructor(s) _____ Signature _____ Date

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