COUNTY COLLEGE OF MORRIS Course Information Outline

Cou	se Title <u>Sta</u>	tistics for Middle Grac	ies PREF	IX&NUMBER MAT 273	
Lecture Hours 45 Laboratory Hours 0 Credit Hours 3 Course Fee None					
Department Chairperson Approval Alexis Thurman A Thurman Date 4/14					
Division Dean Approval Patrick Enright Date 1/10/14					
General Education Information:					
Cate	egories:				
□ C	ommunications	☐ History	☐ Humanities	☐ Mathematics	
□ So	cience	☐ Social Science	☐ Technological		
			Competency		
☐ Diversity (check if course also meets diversity category)					
Integrated Goals: (check all that apply)					
ΠE	thical Reasoning	and Action	☐ Information Literacy	<i>'</i>	
1.	 Catalog Course Description An introduction to statistical methods and reasoning as applied to practical problems. Topics include collecting and summarizing data, histograms and other types of graphs, descriptive statistics, normal distributions, sampling, surveys, use of computers in statistics and interpretation of data. 				
2.	Prerequisite(s) Elementary So	chool or N-12 subject m	natter endorsement		
3.	Co-requisite(s) None				
4.	Textbooks Larson, Ron:	Elementary Statistics, 4	4 th ed. (Prentice Hall).		
5.				CD lectures (Prentice Hall),	
6.	restricted by a	uipment, supplies, factreditation and/or ecentral funding category.)	quipment limitations.	limited by enrollment or (Information will be used to	

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7. Course Content (List of Topics)

- · Overview of statistics, data classification
- Experimental design
- Frequency distributions
- · Graphs and displays

▼ Traditional

- Measures of central tendency
- Measures of variation, measures of position
- Basic concepts of probability and counting
- Conditional probability and the multiplication rule
- Infusion of teaching techniques

8. Statement of Course LEARNING OUTCOMES

- Understand the basic terminology of statistics, such as sample, population, measures of central tendency, variation, and position, and create and interpret graphs of data
- Calculate and interpret measures of central tendency, variation, and position
- Apply probability rules of multiplication and addition to word problems

☐ On-Line

- Find and interpret probability and percentages of the normal distribution and apply its characteristics to word problems
- **Understand** correlation between two characteristics collected on data and **use** regression to make predictions

9.	Statement of Relation to Curriculum(s) This course is one course required to complete the Elementary with Subject Matte Specialization: Mathematics Grade 5-8 Certificate of Eligibility.
10.	Format for offering the course (check all that apply)

☑ Hybrid