

MATH-3600 (3 Credit hrs)

INSTRUCTOR : Dr. ANDREAS LAZARI Office: Nevins Hall 2214 (333-7154)

OFFICE HOURS : Monday Through Thursday 11:00am-11:50am
ANY OTHER TIME - BY APPOINTMENT

Course Description :Prerequisite: Either MATH 2262 or MATH 1262, with a "C" or higher. Descriptive statistics, probability distributions for discrete and continuous random variables, statistical inference, one way analysis of variance, and regression analysis.

TEXT : Introduction to Practice of Statistics 7th Edition by Moore, McCabe, Craig.
(Publisher: Freeman and Company)

COURSE COVERAGE: Selected Topics from chapters 1 - 11.

EXAMS : THREE EXAMS AND A FINAL. THE FINAL EXAM IS COMPREHENSIVE.

PROJECTS : Three to Four projects. The projects are done in groups(usually three students). I usually assign groups the day after the first test. If you are not in class that day you will not have a group, which means you will not be able to do the first project. (The last project is presented in class-Power Point presentation is required)

EVALUATION	: EXAM #1	100 POINTS
	EXAM #2	100
	EXAM #3	100
	PROJ/REPORT	50
	FINAL PROJ/REPORT	50
	FINAL EXAM	100

	TOTAL POINTS	500

GRADES	:	A 450 - 500	90 - 100%
		B 400 - 449.99	80 - 89.99%
		C 350 - 399.99	70 - 79.99%
		D 300 - 349.99	60 - 69.99%
		F 0 - 299.99	0 - 59.99%

VSU GENERAL EDUCATION OUTCOMES

3. Students will use computer and information technology when appropriate.
4. Students will express themselves clearly, logically, and precisely in writing and in speaking, and they will demonstrate competence in reading and listening.
5. Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices.
7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written, and visual materials.

STUDENT LEARNING OUTCOMES:

- Students will be able to produce and interpret descriptive statistics, graphically, numerically, and in tabular format. (3,5,7)
- Students will be able to calculate and interpret probability using union and intersection rules. (5,7)
- Students will demonstrate understanding of the concepts of random variable and distribution. (4,5,7)
- Students will be able to use technology to calculate probabilities with the normal and binomial distributions. (3,5)
- Students will be able to produce a confidence interval estimate from a given sample. (3,4,5,7)
- Students will demonstrate understanding of the rationale of hypothesis testing. (4,5)
- Students will be able to carry out - with and without the aid of technology - a variety of hypothesis tests, including Z-tests, t-tests, Analysis of Variance and interpret the meaning of the results. (3,4,5,7)
- Students will be able to use correlation analysis to determine the strength of a linear relationship between bivariate data and apply linear regression to describe this relationship. (3,4,5,7)
- Students will demonstrate understanding of the use of probabilistic models in analysis and design. (4,5,7)
- Students will demonstrate understanding of the basics of probability theory. (5,7)
- Students will be able to introduce commonly used probabilistic models and their applications. (3,4,5,7)

All of these objectives will be assessed quantitatively via homework and tests, and qualitatively via class discussion. Additionally, the objectives related to statistics will be assessed via group projects with written reports and presented to the class. (3,4,5,7)

GENERAL POLICIES:

1. There are NO MAKE-UP EXAMS. There are EXCEPTIONS to this rule. For example: HOSPITALIZATION AND DEATH IN THE FAMILY. REQUIRED NOTIFICATION PRIOR TO THE TEST. UPON VERIFICATION I WILL ALLOW YOU TO COUNT YOUR FINAL EXAM TWICE.
2. Withdraw before midterm and you get WP grade.
Withdraw after midterm for NO GOOD REASON and you get WF grade.
3. Attendance is expected for every scheduled class meeting. You are expected to come on time and stay for the full period.
4. CLASS NOTES: You are responsible for getting the material of the internet(<http://www.valdosta.edu/~alazari>) before Class.
5. Cell Phones. No cell phones should be used during class, text messaging or any other form. If you expect an emergency call during class you need to talk to Dr. Lazari. If a cell phone rings, it will be collected and returned to the Student Affairs Office.
6. Students requesting classroom accommodations or modifications because of a documented disability must contact the Access Office for Students with Disabilities located in room 1115 Nevins Hall. The phone numbers are 245-2498 (voice) and 219-1348 (tty).