



DE LA SALLE UNIVERSITY
College of Science
Department of Mathematics



STATHE2 – Statistical Theory 2

Prerequisite: STATHE1 and MATH115

Prerequisite to: LINEMOD

Instructor: _____

Contact details: _____

Consultation Hours: _____

Class Schedule and Room: _____

Course Description

A course in estimation of parameters and tests of hypotheses. Topics include order statistics, limiting distributions, methods of estimation, properties of estimators, hypothesis testing.

Learning Outcomes

On completion of this course, the student is expected to present the following learning outcomes in line with the Expected Lasallian Graduate Attributes (ELGA)

ELGA	Learning Outcome
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	2.5 Exponential Family of Distributions 2.6 Location of Scale Invariance 2.7 Bayesian Estimation		
	Quiz No. 2	2 hours / Week 8	
	3. Parametric Interval Estimation 3.1 Definition of Confidence Interval 3.2 Confidence Intervals 3.2.1 Mean, Variance, Proportion – One Population 3.2.2 Mean, Variance, Proportion – Two Populations	4 hours / Week 9	
	4. Hypothesis Testing 1.1 Preliminaries on Testing Hypotheses 1.2 The Neyman Pearson Lemma and the Most Powerful Test 1.3 Generalized Likelihood Ratio Tests 1.4 Confidence Intervals and Hypothesis Tests	8 hours / Weeks 10-11	
	Quiz No. 3	2 hours / Week 12	
	5. Inquiry-based Group Project	4 hours / Week 13	
	Final Examination	2 hours / Week 14	

special/make-up quiz will not be eligible for exemption.

Learning outputs are required and not optional to pass the course.

Mobile phones and other forms of communication devices should be on silent mode or turned off during class.

Students are expected to be attentive and exhibit the behavior of a mature and responsible individual during class. They are also expected to come to class on time and prepared.

Sleeping, bringing in food and drinks, and wearing a cap and sunglasses in class are not allowed.

Students who wish to go to the washroom must politely ask permission and, if given such, they should be back in class within 5 minutes. Only one student at a time may be allowed to leave the classroom for this purpose.

Students who are absent from the class for more than 5 meetings will get a final grade of 0.0 in the course.

Only students who are officially enrolled in the course are allowed to attend the class meetings.

Approved by:

DR. ARTURO Y. PACIFICADOR, JR.

Chair, Department of Mathematics