

Ambo University
College of Natural and Computational Science
Department of Statistics
Basic Statistics(Stat2131) Course Outline

1 Introduction to Statistics

- 1.1 What is Statistics?
- 1.2 Descriptive Versus Inferential Statistics
- 1.3 Types of Variables and Scales of Measurement
- 1.4 Statistics in Business Decisions

2 Method of data collection and Presentation

- 2.1 Method of data collection
- 2.2 Method of data Presentation

3 Statistical Description of Data

- 3.1 Statistical Description: Measures of Central Tendency
- 3.2 Statistical Description: Measures of Dispersion

4 Probability And Probability Distribution

- 4.1 Basic definitions of probability
- 4.2 Fundamental concepts: experiment and event, event and their relationships, conditional and joint probability
- 4.3 Definitions and classification of probability distribution
- 4.4 Discrete random variables, expected value and variance of discrete random variable
- 4.5. The binomial, Poisson, and hyper geometric probability distributions and their applications.
- 4.6. Continuous Probability distribution: Uniform, Normal, and exponential probability distributions and their applications.

Reference Books

- 1. Ronald M. Weiers (2011). Introduction to Business Statistics. 7th edition.
- 2. David R. Anderson, Dennis J. Sweeney, Thomas A.
- 3. Williams, Jeffrey D. Camm and James J. Cochran (2018) Statistics for Business and Economics, 13th revised edition.
- 4. David F. Groebner, Patrick W. Shannon, Phillip C. Fry, and Kent D. Smith (2011). Business statistics a decision making approach 8th edition.
- 5. Douglas A. Lind, William G. Marchal, Samuel A. Wathen (2013) Basic Statistics for Business & Economics, 9th edition.
- 6. James T. McClave, P. George Benson, and Terry Sincich (2018) Statistics for Business and Economics, 13th edition.
- 7. Mark L. Berenson, David M. Levine, and Timothy C. 8. Krehbiel (2012). Basic Business Statistics: Concepts and Applications, 9th edition.
- 9. Paul Newbold, William L. Carlson, and Betty Thorne (2013). Statistics for business and economics. 8th edition.
- 10. Sanjiv Jaggia and Alison Kelly (2020). Essentials Of Business Statistics: Communicating With Numbers, Second Edition

Mode of Assessment:

Types of Assessment	Frequency	Weight
Continuous Assessment	At least 2 Assignment, 2 Test and 1 Quiz	50%
Final	1	50%
Total	-	100%

Instructor Name: Ketema Bedane
Address: Statistics Department

Basic Course In Statistics

Tze Leung Lai, Haipeng Xing



Basic Course In Statistics:

A Basic Course in Statistics Geoffrey Mallin Clarke, Dennis Cooke, 1978 This is a thoroughly revised edition of a classic basic statistics text ideal for students with a good mathematics background who are starting to learn statistics This fourth edition includes a chapter on multiple regression has additional material on acceptance sampling and places greater emphasis on graphical methods of data analysis Like earlier editions it is packed with examples exercises and larger projects including plenty of computing exercises in Minitab **A Basic Course in Statistics** Geoffrey M. Clarke, D.

Cooke, 2011-03-28 Expanded and revised to include new computing exercises using actual data along with tips solutions and a set of updated questions Computer use is encouraged to facilitate analysis of data sets too large to be done by hand to assist in the drawing of diagrams histograms and scatter plots to simulate probability models in order to illustrate probability and statistical theory Explains how to tackle computing exercises using the statistical package MINITAB A Basic Course

in Statistics Geoffrey Mallin Clarke, Dennis Cooke, 1998 A Basic Course in Statistics : with Sample Statistical Labs

Tadepalli Venkata Narayana, University of Alberta. Department of Mathematics, Williams, J. G, 1980 Probability and Statistics by Example: Volume 1, Basic Probability and Statistics Yu. M. Suhov, Mark Kelbert, 2005-10-13 Probability and Statistics are as much about intuition and problem solving as they are about theorem proving Because of this students can find it very difficult to make a successful transition from lectures to examinations to practice since the problems involved can vary so much in nature Since the subject is critical in many modern applications such as mathematical finance quantitative management telecommunications signal processing bioinformatics as well as traditional ones such as insurance social science and engineering the authors have rectified deficiencies in traditional lecture based methods by collecting together a wealth of exercises for which they have supplied complete solutions These solutions are adapted to needs and skills of students To make it of broad value the authors supply basic mathematical facts as and when they are needed and have sprinkled some historical information throughout the text A Basic Course in Statistics with Sociological Applications

Theodore R. Anderson, Morris Zelditch, 1975-01-01 **A Basic Course in Statistics** Theodore R. Anderson, Morris Zelditch (Jr.), 1968 A Basic Course in Statistics, with Sociological Applications Theodore R. Anderson, Morris Zelditch (Jr.), 1968

Aise Basic Course in Statistics Clarke, 1992-04-01 A Basic Course in Statistics Tadepalli Venkata Narayana, R. Ponnappalli, University of Alberta. Department of Mathematics, 1973 A Basic Course in Measure and Probability Ross

Leadbetter, Stamatis Cambanis, Vladas Pipiras, 2014-01-30 A concise introduction covering all of the measure theory and probability most useful for statisticians *Introduction to Statistical Quality Control* Douglas C. Montgomery, 2019-12-30 Once solely the domain of engineers quality control has become a vital business operation used to increase productivity and secure competitive advantage Introduction to Statistical Quality Control offers a detailed presentation of the modern statistical methods for quality control and improvement Thorough coverage of statistical process control SPC demonstrates

the efficacy of statistically oriented experiments in the context of process characterization optimization and acceptance sampling while examination of the implementation process provides context to real world applications Emphasis on Six Sigma DMAIC Define Measure Analyze Improve and Control provides a strategic problem solving framework that can be applied across a variety of disciplines Adopting a balanced approach to traditional and modern methods this text includes coverage of SQC techniques in both industrial and non manufacturing settings providing fundamental knowledge to students of engineering statistics business and management sciences A strong pedagogical toolset including multiple practice problems real world data sets and examples provides students with a solid base of conceptual and practical knowledge

Statistical Models and Methods for Financial Markets Tze Leung Lai, Haipeng Xing, 2008-09-08 The idea of writing this book arose in 2000 when the first author was assigned to teach the required course STATS 240 Statistical Methods in Finance in the new M S program in financial mathematics at Stanford which is an interdisciplinary program that aims to provide a master's level education in applied mathematics statistics computing finance and economics Students in the program had different backgrounds in statistics Some had only taken a basic course in statistical inference while others had taken a broad spectrum of M S and Ph D level statistics courses On the other hand all of them had already taken required core courses in investment theory and derivative pricing and STATS 240 was supposed to link the theory and pricing formulas to real world data and pricing or investment strategies Besides students in the program the course also attracted many students from other departments in the university further increasing the heterogeneity of students as many of them had a strong background in mathematical and statistical modeling from the mathematical physical and engineering sciences but no previous experience in finance To address the diversity in background but common strong interest in the subject and in a potential career as a quant in the financial industry the course material was carefully chosen not only to present basic statistical methods of importance to quantitative finance but also to summarize domain knowledge in finance and show how it can be combined with statistical modeling in financial analysis and decision making The course material evolved over the years especially after the second author helped as the head TA during the years 2004 and 2005

Introduction to Statistical Process Control Muhammad Aslam, Aamir Saghir, Liaquat Ahmad, 2020-09-16 An Introduction to the Fundamentals and History of Control Charts Applications and Guidelines for Implementation Introduction to Statistical Process Control examines various types of control charts that are typically used by engineering students and practitioners This book helps readers develop a better understanding of the history implementation and use cases Students are presented with varying control chart techniques information and roadmaps to ensure their control charts are operating efficiently and producing specification conforming products This is the essential text on the theories and applications behind statistical methods and control procedures This eight chapter reference breaks information down into digestible sections and covers topics including An introduction to the basics as well as a background of control charts Widely used and newly researched attributes of

control charts including guidelines for implementation The process capability index for both normal and non normal distribution via the sampling of multiple dependent states An overview of attribute control charts based on memory statistics The development of control charts using EQMA statistics For a solid understanding of control methodologies and the basics of quality assurance Introduction to Statistical Process Control is a definitive reference designed to be read by practitioners and students alike It is an essential textbook for those who want to explore quality control and systems design

Probability and Statistics by Example: Volume 1, Basic Probability and Statistics Yuri Suhov, Mark Kelbert, 2014-09-22 Probability and statistics are as much about intuition and problem solving as they are about theorem proving Consequently students can find it very difficult to make a successful transition from lectures to examinations to practice because the problems involved can vary so much in nature Since the subject is critical in so many applications from insurance to telecommunications to bioinformatics the authors have collected more than 200 worked examples and examination questions with complete solutions to help students develop a deep understanding of the subject rather than a superficial knowledge of sophisticated theories With amusing stories and historical asides sprinkled throughout this enjoyable book will leave students better equipped to solve problems in practice and under exam conditions *Applied Statistics: From Bivariate Through Multivariate Techniques* Rebecca M. Warner, 2013 Rebecca M Warner's *Applied Statistics From Bivariate Through Multivariate Techniques* Second Edition provides a clear introduction to widely used topics in bivariate and multivariate statistics including multiple regression discriminant analysis MANOVA factor analysis and binary logistic regression The approach is applied and does not require formal mathematics equations are accompanied by verbal explanations Students are asked to think about the meaning of equations Each chapter presents a complete empirical research example to illustrate the application of a specific method Although SPSS examples are used throughout the book the conceptual material will be helpful for users of different programs Each chapter has a glossary and comprehension questions

Bulletin of Courses - Applied Statistics Training Institute Applied Statistics Training Institute (U.S.), 1980

Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability Jerzy Neyman, 1949

Catalogue of the University of Michigan University of Michigan, 1963 Announcements for the following year included in some vols

Econometrics and Data Analysis for Developing Countries Chandan Mukherjee, Howard White, Marc Wuyts, 2013-09-13 Getting accurate data on less developed countries has created great problems for studying these areas Yet until recently students of development economics have relied on standard econometrics texts which assume a Western context *Econometrics and Data Analysis for Developing Countries* solves this problem It will be essential reading for all advanced students of development economics

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An Introduction to Medical Malpractice in the United States An Introduction to Medical Malpractice in the United States
 Summary Medical Liability/Medical Malpractice Laws Jul 13, 2021 — A health care provider's personal liability is limited to \$200,000 for monetary damages and medical care and related benefits as provided in §41 ... Medical Malpractice Law Oct 14, 2023 — Medical malpractice happens when a doctor or another medical professional whose actions fall below the appropriate standard of care hurts a ... What is Medical Malpractice Law? Aug 3, 2023 — Medical malpractice involves injury or harm caused by a doctor's negligence. Learn about time limits, forms of negligence, and much more at ... Medical malpractice: What does it involve? Medical malpractice refers to professional negligence by a health care provider that leads to substandard treatment, resulting in injury to a patient. malpractice | Wex | US Law | LII / Legal Information Institute
 Malpractice, or professional negligence, is a tort committed when a professional breaches their duty to a client. The duty of a professional to a client is ... Medical malpractice Medical malpractice is a legal cause of action that occurs when a medical or health care professional, through a negligent act or omission, deviates from ... 22 U.S. Code § 2702 - Malpractice protection - Law.Cornell.Edu ... negligence in the furnishing of medical care or related services, including the conducting of clinical studies or investigations. (f) Holding harmless or ... Medical Malpractice Sep 23, 2016 — Medical malpractice is negligence committed by a professional health care provider—a doctor ... Health Care Law · Managed Care · Law for Older ... Medical Malpractice Medical malpractice is a type of personal injury claim that involves negligence by a healthcare provider. Of course, medical treatments do not always work, and ... Paraphrase on Dizzy Gillespie's "Manteca" : for two pianos, ... Paraphrase on Dizzy Gillespie's "Manteca" : for two pianos, op. 129. Authors: Nikolai Kapustin, Masahiro Kawakami (Editor), Dizzy Gillespie. Paraphrase on Dizzy Gillespie Manteca for two pianos, op. ... Paraphrase on Dizzy Gillespie Manteca for two pianos, op.129 - Kapustin, Nikolai - listen online, download, sheet music. PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 - TWO PIANOS Classical sheets Piano. German edition. 4.4 4.4 out of 5 stars 2 reviews. MUST ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 - TWO PIANOS Classical sheets Piano - ISBN 10: 4904231562 - ISBN 13: 9784904231562 - MUST. PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 - TWO PIANOS Classical sheets Piano. German edition. 4.4 4.4 out of 5 stars 2 Reviews. MUST ... Paraphrase On Dizzy Gillespie's Manteca Sheet Music - £37.95 - Nikolaj Girshevich Kapustin - Paraphrase On Dizzy Gillespie's Manteca. ... Piano, Keyboard & Organ - Piano Solo. Publisher: Must Music ... Classical and Jazz Influences in the Music of Nikolai Kapustin by Y Tyulkova · 2015 · Cited by 8 — The topic of this

research is the contemporary Russian composer and pianist Nikolai. Kapustin. This paper will focus on the influences from both Classical and ... Factory Service Manual Review Apr 29, 2020 — So I went to look for the Factory Service Manual (FSM) from FCA. Everything is digital now, and that's fine. However, I much prefer paper ... Jeep Car Repair Manuals A Haynes manual makes it EASY to service and repair your Jeep. Online, digital, PDF and print manuals for all popular models. Service Manuals Jeep Service Manuals from CollinsBros Jeep. Access comprehensive service manuals to assist in DIY repairs and maintenance. Wrangler Service Manual: Books 2002 JEEP WRANGLER Service Shop Repair Workshop Manual Set FACTORY W Body Diagn. by jeep. Paperback. STICKY - Jeep Wrangler TJ Factory Service Manuals (FSM ... Apr 9, 2017 — This post is for TJ documentation like Factory Service Manuals Etc.. A while back I was able to find the FSM for my 2006 TJ. Service & Repair Manuals for Jeep Wrangler Get the best deals on Service & Repair Manuals for Jeep Wrangler when you shop the largest online selection at eBay.com. Free shipping on many items ... Jeep OEM Factory Service Manuals - Quality Reproductions Find the right OEM Jeep service manual for your Jeep in The Motor Bookstore's Chevy manual store. Free Shipping, great service, ... Factory Service Manual Aug 23, 2021 — STICKY - Jeep Wrangler TJ Factory Service Manuals (FSM) & Technical Documentation. This post is for TJ documentation like Factory Service ... Jeep Vehicle Repair Manuals & Literature for sale Get the best deals on Jeep Vehicle Repair Manuals & Literature when you shop the largest online selection at eBay.com. Free shipping on many items | Browse ... Jeep Factory Service Manual link Oct 14, 2021 — The owners manual will give you a better focused approach to the basics. I thought you wanted a link to service manuals? FWIW, most modern ...