Sample Course Information Available for Students in CUSIS

Course Detail

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STAT 2006 - Basic Concepts in Statistics and Probability II

Course Detail

View Class Sections

Career	Undergraduate	
Units	3.00	
Grading Basis	Graded	
Course Components	Lecture	Required
	Interactive Tutorial	Optional
Campus	Main Campus	
Academic Group	Dept of Statistics	
Academic Organization	Dept of Statistics	

View Course Outcome

View Additional Information

Enrollment Information

Enrollment Requirement Pre-requisite: STAT2001 or ENGG2430 or ESTR2002 or consent of instructor.

Description

This course covers basic theories in estimation and testing. Topics include point estimation, interval estimation, unbiasedness, maximum likelihood estimation, hypothesis testing and likelihood ratio test.

Grade Descriptor

A

Have a thorough knowledge of mathematics to solve the typical probabilistic and statistical problems that arise in intermediate statistics and financial courses. Demonstrate an excellent ability to apply statistical testing to elementary practical problems in the physical and social sciences. Demonstrate an excellent ability to apply heuristics to identify the proper use and misuse of statistics in everyday life. Demonstrate excellent knowledge of all of the learning outcomes listed above from (1) to (3).

B

Have a satisfactory knowledge of mathematics to solve the typical probabilistic and statistical problems that arise in intermediate statistics and financial courses. Demonstrate a sufficient ability to apply statistical testing to elementary practical problems in the physical and social sciences. Demonstrate an elaborate ability to apply heuristics to identify the proper use and misuse of statistics in everyday life. Demonstrate satisfactory knowledge of most of the learning outcomes listed above from (1) to (3).

C

Have a fair knowledge of mathematics to solve the typical probabilistic and statistical problems that arise in intermediate statistics and financial courses. Demonstrate an acceptable ability to apply statistical testing to elementary practical problems in the physical and social sciences. Demonstrate an acceptable ability to apply heuristics to identify the proper use and misuse of statistics in everyday life. Demonstrate partial knowledge of the learning outcomes listed above from (1) to (3).

D

Have a brief knowledge of mathematics to solve the typical probabilistic and statistical problems that arise in intermediate statistics and financial courses. Barely demonstrate the ability to apply statistical testing to elementary practical problems in the physical and social sciences. Barely demonstrate the ability to apply heuristics to identify the proper use and misuse of statistics in everyday life. Show segmental knowledge of the learning outcomes listed above from (1) to (3).

F

Fail to acquire knowledge of mathematics to solve the typical probabilistic and statistical problems that arise in intermediate statistics and financial courses. Fail to apply statistical testing to elementary practical problems in the physical and social sciences. Fail to apply heuristics to identify the proper use and misuse of statistics in everyday life. Fail to learn about key topics, even in the learning outcomes listed above from (1) to (3).

Course Schedule

Terms Offered 2019-20 Term 2 | Show Sections

Open | Closed | Wait List

STAT 2006 sections for 2019-20 Term 2

Section Personalize | Find | View All | First 1 of 1 Last

Section	Session	Status
A-LEC (8258)	1	

Section Details Personalize | Find | First 1-7 of 7 Last

Days	Start	End	Room	Instructor	Dates
Mo	2:30PM	4:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	6/1, 13/1, 20/1
Mo	2:30PM	4:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	3/2, 10/2, 17/2, 24/2, 2/3, 9/3, 16/3, 23/3
Mo	2:30PM	4:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	6/4
Mo	2:30PM	4:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	20/4, 27/4
Th	1:30PM	2:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	9/1, 16/1, 23/1
Th	1:30PM	2:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	6/2, 13/2, 20/2, 27/2, 5/3, 12/3, 19/3, 26/3
Th	1:30PM	2:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	9/4, 16/4, 23/4

Section Personalize | Find | View All | First 1 of 1 Last

Section	Session	Status
AT01-TUT (8259)	1	

Section Details Personalize | Find | First 1 of 1 Last

Days	Start	End	Room	Instructor	Dates
TBA	TBA		TBA	Professor YAM Sheung Chi Phillip	06/01/2020 - 13/04/2020

Section Personalize | Find | View All | First 1 of 1 Last

Section	Session	Status
AT02-TUT (9343)	1	

Section Details Personalize | Find | First 1-3 of 3 Last

Days	Start	End	Room	Instructor	Dates
Tu	5:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	7/1, 14/1, 21/1
Tu	5:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	4/2, 11/2, 18/2, 25/2, 3/3, 10/3, 17/3, 24/3
Tu	5:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	7/4, 14/4, 21/4, 28/4

Section Personalize | Find | View All | First 1 of 1 Last

Section	Session	Status
B-LEC (8260)	1	

Section Details Personalize | Find | First 1-7 of 7 Last

Days	Start	End	Room	Instructor	Dates
Mo	4:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	6/1, 13/1, 20/1
Mo	4:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	3/2, 10/2, 17/2, 24/2, 2/3, 9/3, 16/3, 23/3
Mo	4:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	6/4
Mo	4:30PM	6:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	20/4, 27/4
Th	12:30PM	1:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	9/1, 16/1, 23/1
Th	12:30PM	1:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	6/2, 13/2, 20/2, 27/2, 5/3, 12/3, 19/3, 26/3
Th	12:30PM	1:15PM	Lady Shaw Bldg LT1	Professor YAM Sheung Chi Phillip	9/4, 16/4, 23/4

Section Personalize | Find | View All | First 1 of 1 Last

Section	Session	Status
BT01-TUT (8261)	1	

Section Details Personalize | Find | First 1 of 1 Last

Days	Start	End	Room	Instructor	Dates
TBA	TBA		TBA	Professor YAM Sheung Chi Phillip	06/01/2020 - 13/04/2020

Section Personalize | Find | View All | First 1 of 1 Last

Section	Session	Status
BT02-TUT (9342)	1	

Section Details Personalize | Find | First 1-2 of 2 Last

Days	Start	End	Room	Instructor	Dates
Th	2:30PM	3:15PM	Mong Man Wai Bldg LT1	Professor YAM Sheung Chi Phillip	9/1, 16/1, 23/1
Th	2:30PM	3:15PM	Mong Man Wai Bldg LT1	Professor YAM Sheung Chi Phillip	6/2, 13/2, 20/2, 27/2, 5/3, 12/3, 19/3, 26/3

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STAT 2006 - Basic Concepts in Statistics and Probability II

Learning Outcome

Upon completion of the course, students should be able to
(1) acquire enough mathematical knowledge to solve the typical probabilistic and statistical problems that arise in intermediate statistics and financial courses;
(2) apply statistical testing to elementary practical problems in the physical and social sciences; and
(3) apply heuristics to identify the proper use and misuse of statistics in everyday life.

Course Syllabus

a. Point estimation. Confidence intervals for means, difference of two means, variances, proportions. Simple regression problem.
b. Hypothesis testing about proportions, one mean, equality of two means and of variances. Elementary notion of Analysis of Variance (if time is allowed).
c. Elementary notion of sufficient statistics, best critical regions, likelihood ratio test. Maximum likelihood estimators and their asymptotic properties.
d. Elementary nonparametric methods, e.g. Chi-square goodness-of-fit tests, contingency tables.

Assessment Type

	Assessment Type	Current Percent
1	Attendance	2
2	Essay test or exam	50
3	Homework or assignment	18
4	Short answer test or exam	30

Feedback for Evaluation

Comments and feedback can be made via the following channels:
1. Mid-term course evaluation and Term-end course evaluation.
2. Student-staff consultative committee meeting(s).

Required Readings

Hogg, R. V. and Tanis, E. A. (2010) Probability and Statistical Inference, 8th edition, Prentice Hall.

Recommended Readings

Hogg, McKean and Craig (2005) Introduction to Mathematical Statistics, 6th edition, Prentice Hall.

View Additional Information

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STAT 2006 - Basic Concepts in Statistics and Probability II

	CAF Name	CAF Value
1	eLearning hrs for blended cls	0
2	No. of micro-modules	0
3	Research components (UG)	0%