THE CHINESE UNIVERSITY OF HONG KONG
Print Course Catalog Details

Academic Org: – Subject:

Course: **Course ID:** **Eff Date:** **Crse Status:** **Apprv. Status:** **[]**

Equivalent Offering:
Units: 0 (Min) / 0 (Max) / 0 (Acad Progress)
Grading Basis:
Repeat for Credit:
Multiple Enroll:
Course Attributes:

Topics:

COURSE OUTCOMES

Learning Outcomes:

Course Syllabus:

Assessment Type:

Feedback for Evaluation:

Required Readings:

Recommended Readings:

OFFERINGS

COMPONENTS

ENROLMENT REQUIREMENTS

< E N D O F R E P O R T >

Sample Course Outline Input by Department/ Programme

Data Language: English | New Window | Customize Page |

Catalog Data | Course Outcomes | Offerings | Components | Submit Course Approval

Course ID: 007676

Find | View All First 1 of 1 Last

Effective Date: 01/07/2013 **Status:** Active

Course Offering 1 of 1

STAT 2006

Description: Basic Con in Stat & Prob II

Long Course Title: Basic Concepts in Statistics and Probability II

Long 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.

Course Units/Hours/Count

Minimum Units:	3.00	**Last Course of Mult Term Seq:**	
Maximum Units:	3.00	**Enrollment Unit Load Calc Type:**	Actual Units
Academic Progress Units:	3.00	**Course Count:**	1.00
Financial Aid Progress Units:	3.00	**Course Contact Hours:**	0.00

Course Grading

Grading Basis: Graded **Grade Roster Print:** Component

Graded Component: Lecture

Repeat for Credit Rules

Repeat for Credit		**Total Units Allowed:**	3.00
Allow Multiple Enroll in Term		**Total Completions Allowed:**	1

Additional Course Information

Instructor Edit: No Choice

Add Consent: No Consent **Drop Consent:** No Consent

Requirement Designation:

Equivalent Course Group:

Course Attributes

Customize | Find | First 1 of 1 Last

Course Attribute		Course Attribute Value			

Override Topic Link ID

Course Topics

Customize | Find | First 1 of 1 Last

Description | Repeat For Credit

Course Topic ID	Description	Short Description	Formal Description	Topic Link ID		
1						

Save | Return to Search | Notify | Add | Update/Display | Include History | Correct History

Catalog Data | Course Outcomes | Offerings | Components | Submit Course Approval

Course ID: 007676

Find | View All First 1 of 1 Last

Effective Date: 01/07/2013 **Status:** Active

Description: Basic Con in Stat & Prob II

Learning Outcome

***Data Input Type:** (•) **Free Text** ( ) **HTML File**

*What are the students expected to know and be able to do after taking this course?

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

Attached File	Add Attachment	View
	Add Attachment	View

Course Syllabus

***Data Input Type:** (•) **Free Text** ( ) **HTML File**

*What are the major concepts and topics to be covered?

The core content/syllabus should be covered by all sections of the same course and selected topics may be added by individual course teacher. Core content should comprise not less than 50% of the course

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

Attached File	Add Attachment	View
	Add Attachment	View

Assessment Type

Customize | Find | View All | First 1 of 1 Last

	Assessment Type	Percentage
1		

Feedback for Evaluation

***Data Input Type:** (•) **Free Text** ( ) **HTML File**

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).

Attached File	Add Attachment	View
	Add Attachment	View

Required and Recommended Readings

***Data Input Type:** (•) **Free Text** ( ) **HTML File**

***Required Readings:**

What are the topic-by-topic reading assignments?

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

Attached File	Add Attachment	View	
	Add Attachment	View	

Recommended Readings:

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

Attached File	Add Attachment	View	
	Add Attachment	View	

Save | Return to Search | Notify | Add | Update/Display | Include History | Correct History

Catalog Data | Course Outcomes | Offerings | Components | Submit Course Approval

Course ID: 007676

Find | View All First 1 of 1 Last

Effective Date: 01/07/2013 **Status:** Active

Description: Basic Con in Stat & Prob II

Course Offering

Find | View All First 1 of 1 Last

Course Offering Nbr:	1		**Catalog Nbr:**	2006 STAT
Academic Institution:	CUHK1	CUHK		
Academic Group:	STA	Dept of Statistics		
Subject Area:	STAT	Statistics		
Campus:	MAIN	Main Campus		
Academic Organization:	STA	Dept of Statistics		
Academic Career:	UG	Undergraduate		
Course Typically Offered				
Tuition Group:				
Dynamic Class Date Rule:				

Course Approved: Approved

Allow Course to be Scheduled ☑

☐ **Allow OEE Enrollment**

☑ **Catalog Print**
☑ **Print Instructor in Schedule**
☑ **Schedule Print**
☑ **Schedule Term Roll**
☐ **Use Blind Grading**
☐ **GL Interface Required**
☐ **Split Ownership**

Enrollment Requirement Group

Requirement Group: 003374 STAT2006 Detail

Long Description: Prerequisite:STAT2001 or consent of instructor

Taxonomy

CIP Code:

HEGIS Code:

Save | Return to Search | Notify | Add | Update/Display | Include History | Correct History

Data Language: English | New Window | Customize Page

Catalog Data | Course Outcomes | Offerings | **Components** | Submit Course Approval

Course ID: 007676

Find | View All First 1 of 1 Last

Effective Date: 01/07/2013 **Status:** Active

Description: Basic Con in Stat & Prob II

1 of 1

STAT	2006

Course Component Find | View All First 1 of 2 Last

Course Component: Lecture

Instructor Contact Hours: 3.000

Default Section Size: 200

Workload Hours:

OEE Workload Hours:

Final Exam: Yes

Exam Seat Spacing: 1

Provider for Authentication

LMS Extract File Type:

☐ **Auto Create**
☑ **Graded Component**
☑ **Primary Component**
☐ **Optional Component**
☐ **Generate Class Mtg Attendance**

Add Fee

Course Attendance Find | View All First 1 of 1 Last

Instruction Mode:

Attendance Type:

☑ **Use Present**
☑ **Use Reason**
☑ **Use Tardy**
☑ **Use Left Early**
☑ **Use Contact Minutes**
☑ **Use To and From Time**
☐ **Override Template Date / Time**

Room Characteristics Required Customize | Find | First 1 of 1 Last

Room Characteristic		Description	Room Characteristic Quantity			
			1			

Save | Return to Search | Notify | Add | Update/Display | Include History | Correct History

Course ID: 007676

Course Approval Status: Approved

Effective Date: 01/07/2013 **Status:** Active

Description: Basic Con in Stat & Prob II

Course Offering

Course Offering Nbr: 1

○ **New Course** ◉ **Course Revision**

For Course Revision, please select the revised items below:

☐ **Catalog Data** ☑ **Other Information** ☐ **Offerings** ☐ **Components**

New Enrollment Requirement(s)

If the enrollment requirements cannot be fulfilled by existing Enrollment Requirement Group in the "Offering" page, please specify the details of the enrollment requirements in the text boxes below.

Pre-requisite(s):

No change

Co-requisite(s):

Course Exclusion(s):

Other Requirement(s):

Save | Return to Search | Notify | Add | Update/Display | Include History | Correct History

Catalog Data | Course Outcomes | Offerings | Components | Submit Course Approval

THE CHINESE UNIVERSITY OF HONG KONG
Print Course Catalog Details

Academic Org: Dept of Statistics – Subject: Statistics

Course: STAT2006 **Course ID:** 007676 **Eff Date:** 2013-07-01 **Crse Status: Active** **Apprv. Status:** Approved **[**Course Rev**]**

Basic Concepts in Statistics and Probability II 統計及概率基本概念（二）

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.

本科介紹估計及檢驗的基本理論。內容包括點估計、區間估計、無偏性、最大似然估計、假設檢驗及似然比檢驗。

Equivalent Offering:
Units: 3 (Min) / 3 (Max) / 3 (Acad Progress)
Grading Basis: Graded
Repeat for Credit: N
Multiple Enroll: N
Course Attributes:

Topics:

COURSE OUTCOMES

Learning Outcomes:

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

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:

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.

OFFERINGS

1. STAT2006 Acad Organization=STA; Acad Career=UG

THE CHINESE UNIVERSITY OF HONG KONG
Print Course Catalog Details

COMPONENTS

LEC : Size=200; Final Exam=Y; Contact=3
TUT : Size=200; Final Exam=Y; Contact=1

ENROLMENT REQUIREMENTS

1. STAT2006

Enrollment Requirement Group:
Prerequisite:STAT2001 or consent of instructor

New Enrollment Requirement(s):
Pre-requisite = No change

< E N D O F R E P O R T >