

CU\_CURR501  
Page 1 of 1

Academic Org: – Subject:

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

**Grade Descriptor:**

**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**

**CAF**

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

# Sample Course Outline Input by Department/ Programme



Data Language: English 1

- [Catalog Data](#)
- [Offerings](#)
- [Components](#)
- [Grade Descriptor](#)
- [Course Outcomes](#)
- [Additional Information](#)
- [Approve Course](#)

Course ID 007676

Find | View All First 1 of 9 Last

\*Effective Date  \*Status Active **Course Offering** 1 of 1

\*Description  STAT 2006

Long Course Title

Long Description

### Course Units/Hours/Count

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

### Course Grading

\*Grading Basis Graded \*Grade Roster Print Component  
 Graded Component Lecture

### Repeat for Credit Rules

Repeat for Credit Total Units Allowed   
 Allow Multiple Enroll in Term Total Completions Allowed

### Additional Course Information

\*Instructor Edit No Enrollment Choice  
 \*Add Consent No Special Consent Required \*Drop Consent No Special Consent Required  
 Requirement Designation   
 Equivalent Course Group

### Course Attributes

Personalize | Find | First 1 of 1 Last

*Course Attribute	Description	*Course Attribute Value	Description
<input type="text"/>		<input type="text"/>	

Override Topic Link ID

### Course Topics

Personalize | Find | First 1 of 1 Last

Description		Repeat For Credit		
*Course Topic ID	*Description	*Short Description	*Formal Description	Topic Link ID
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	

- [Save](#)
- [Return to Search](#)
- [Notify](#)
- [Add](#)
- [Update/Display](#)
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Course ID 007676

Effective Date 02/07/2019 Status Active

Description Basic Con in Stat & Prob II

Course Offering

\*Course Offering Nbr

\*Academic Institution  CUHK

\*Academic Group  Dept of Statistics

\*Subject Area  Statistics

Campus  Main Campus

\*Academic Organization  Dept of Statistics

\*Academic Career  Undergraduate

Course Typically Offered

Tuition Group

Dynamic Class Date Rule

Allow OEE Enrollment

\*Catalog Nbr  STAT

Course Approved Approved

Allow Course to be Scheduled

Exam Only Course

- Catalog Print
- Print Instructor in Schedule
- Schedule Print
- Schedule Term Roll
- Use Blind Grading
- GL Interface Required
- Split Ownership

Enrollment Requirement Group

Requirement Group  STAT2006 [Detail](#)

Long Description Pre-requisite: STAT2001 or ENGG2430 or ESTR2002 or consent of instructor.

Taxonomy

CIP Code

HEGIS Code



Course ID 007676

Find | View All First 1 of 9 Last

Effective Date 02/07/2019 Status Active

Course Offering 1 of 1  
STAT 2006

Description Basic Con in Stat & Prob II

Find | View 1 First 1-2 of 2 Last

Course Component

\*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

Personalize | Find | First 1 of 1 Last

*Room Characteristic	Description	*Room Characteristic Quantity
		1

\*Course Component Interactive Tutorial

Instructor Contact Hours 1.000

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
- Include in Dynamic Date Calc

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

Personalize | 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

Find | View All First 1 of 9 Last

Effective Date 02/07/2019 Status Active

Description Basic Con in Stat & Prob II

Grading Basis Graded

Course Offering

Find | View All First 1 of 1 Last

Course Offering Nbr 1 Catalog Nbr 2006 STAT



Grade Descriptor

Find | View 1 First 1-11 of 11 Last

Grade Grade Descriptor

A \*

Multi Language is enabled for this field

[Text Input Field]

Normal Font Size [Input]

[Color Picker] [Background Color Picker]

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

Grade Grade Descriptor

A-

Multi Language is enabled for this field

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[Color Picker] [Background Color Picker]

Grade Grade Descriptor

B+

Multi Language is enabled for this field

[Text Input Field]

Format Font Size [Input]

[Color Picker] [Background Color Picker]

Grade Grade Descriptor

B \*

Multi Language is enabled for this field

[Text Input Field]

Format Font Size [Input]

[Color Picker] [Background Color Picker]

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

Grade

Grade Descriptor

B-

Multi Language is enabled for this field

Format  Font  Size



Grade

Grade Descriptor

C+

Multi Language is enabled for this field

Format  Font  Size



Grade

Grade Descriptor

C \*

Multi Language is enabled for this field

Format  Font  Size



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

Grade

Grade Descriptor

C-

Multi Language is enabled for this field

Format  Font  Size



Grade

Grade Descriptor

D+

Multi Language is enabled for this field

Format  Font  Size



Grade

Grade Descriptor

D \*

Multi Language is enabled for this field

Format ▾

Font ▾

Size ▾



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

Grade

Grade Descriptor

F \*

Multi Language is enabled for this field

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Font ▾

Size ▾



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,

Save

Return to Search

Notify

Add

Update/Display

Include History

Correct History



Course ID: 007676

[Find](#) | [View All](#) | First 1 of 9 Last

Effective Date: 02/07/2019 Status: Active

Description: Basic Con in Stat &amp; Prob II

**Learning Outcome**

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

Source

Format  Font  Size

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**

\*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

Source

Format  Font  Size

- 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

**Assessment Type**

Personalize | [Find](#) | [View All](#) | | | First 1-3 of 4 Last

	*Assessment Type	*Percentage		
1	Attendance	2		
2	Essay test or exam	50		
3	Homework or assignment	18		

**\*Feedback for Evaluation**

Source

Format  Font  Size

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 and Recommended Readings**



**\*Required Readings:**

What are the topic-by-topic reading assignments?

Source

Format ▾ Font ▾ Size ▾

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

**Recommended Readings:**

Source

Format ▾ Font ▾ Size ▾

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

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



Course ID 007676

Find | View All First 1 of 9 Last

Effective Date 02/07/2019 Status Active

Description Basic Con in Stat & Prob II

Course Catalog Attributes

Find | View 1 First 1-3 of 3 Last

\*Attribute Research components (UG)  0%

\*Attribute No. of micro-modules

\*Attribute eLearning hrs for blended cls

Attachments

Find | View All First 1 of 1 Last

Common Attribute

Attachments Audit

Attached File	View	Add Attachment
	<input type="button" value="View"/>	<input type="button" value="Add Attachment"/> <input type="button" value="-"/>



- Catalog Data
- Offerings
- Components
- Grade Descriptor
- Course Outcomes
- Additional Information
- Approve Course

Course ID: 007676

Find | View All First 1 of 9 Last

Course Approval Status: Approved

Effective Date: 02/07/2019 Status: Active

Description: Basic Con in Stat & Prob II

Course Offering Find | View All First 1 of 1 Last

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):

- New Enrollment Requirement
- Enrollment Requirement Grp Set

Course Approval Status: Approved

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

Academic Org: Dept of Statistics – Subject: Statistics

**Course:** STAT2006      **Course ID:** 007676      **Eff Date:** 2019-07-02      **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。

**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).

有關等級說明的資料，請參閱英文版本。

## 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).

有關等級說明的資料，請參閱英文版本。

## 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).

有關等級說明的資料，請參閱英文版本。

## 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).

有關等級說明的資料，請參閱英文版本。

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).

有關等級說明的資料，請參閱英文版本。

**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 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:**

Attendance	: 2%
Essay test or exam	: 50%
Homework or assignment	: 18%
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.

**OFFERINGS**

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

**COMPONENTS**

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

**ENROLMENT REQUIREMENTS**

1. STAT2006 **Enrollment Requirement Group:**  
Pre-requisite: STAT2001 or ENGG2430 or ESTR2002 or consent of instructor.

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

**CAF**

eLearning hrs for blended cls 0

No. of micro-modules 0  
Research components (UG) 0%

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