

## Form 2B

# City University of Hong Kong

## Information on a Course

offered by Department of Architecture and Civil Engineering  
with effect from Semester A in 2014/2015

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### Part I

<b>Course Title:</b>	Quantitative Method and Analysis for Planning
<b>Course Code:</b>	CA5146
<b>Course Duration:</b>	1 Semester (Some courses offered in Summer Term may start a few weeks earlier than the normal University schedule. Please check the teaching schedules with CLs before registering for the courses.)
<b>Credit Units:</b>	3
<b>Level:</b>	P5
<b>Medium of Instruction:</b>	English
<b>Prerequisites:</b>	Nil
<b>Precursor:</b>	Nil
<b>Equivalent Courses:</b>	Nil
<b>Exclusive Courses:</b>	Nil

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### Part II

#### Course Aims:

This course aims to provide students with quantitative methods and analyses in planning. It seeks to introduce the basic knowledge and application of statistics and quantitative methods that are used in the field of urban design and planning.

#### Course Intended Learning Outcomes (CILOs):

Upon successful completion of this course, students should be able to:

No.	CILOs	Weighting (if applicable)
1.	comprehend the basic principles and techniques of statistics	---
2.	perform statistical analysis for testing hypotheses	---
3.	interpret statistical data and results accurately	---
4.	use statistical computer software package to perform statistical analysis	---

#### Teaching and Learning Activities (TLAs):

*(Indicative of likely activities and tasks designed to facilitate students' achievement of the CILOs. Final details will be provided to students in their first week of attendance in this course)*

**Semester Hours:** 3 hours per week

**Lecture/Tutorial/Laboratory Mix:** Lecture (2); Tutorial (1); Laboratory (0)

CILO No.	TLAs	Total Hours (if applicable)
CILO 1	<ul style="list-style-type: none"> <li>Lectures: Principles and techniques of statistics that are used in the fields of urban design and planning</li> <li>Tutorial: Problem sets</li> </ul>	9
CILO 2	<ul style="list-style-type: none"> <li>Lectures: Measures and analysis between variables, confidence intervals, hypotheses test</li> <li>Tutorial: Problem sets</li> </ul>	12
CILO 3	<ul style="list-style-type: none"> <li>Lectures: Linear and multivariate regression, ANOVA</li> <li>Tutorial: Problem sets</li> </ul>	9
CILO 4	<ul style="list-style-type: none"> <li>Tutorial: SPSS computer software package</li> </ul>	9

### Assessment Tasks/Activities:

*(Indicative of likely activities and tasks designed to assess how well the students achieve the CILOs. Final details will be provided to students in their first week of attendance in this course)*

**Coursework:** 50%

**Examination:** 50% (Examination duration = 3 hours)

To pass a course, a student must obtain minimum marks of 30% in both coursework and examination components, and an overall mark of at least 40%.

CILO No.	Type of assessment tasks/activities	Weighting (if applicable)	Remarks
CILO 1	<ul style="list-style-type: none"> <li>Examination</li> <li>Assignment 1 (individual): solving problem sets</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>
CILO 2	<ul style="list-style-type: none"> <li>Examination</li> <li>Assignment 1 (individual): solving problem sets</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>
CILO 3	<ul style="list-style-type: none"> <li>Examination</li> <li>Assignment 1 (individual): solving problem sets</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>
CILO 4	<ul style="list-style-type: none"> <li>Assignment 2 (individual): students are required to submit a report of statistical analysis about a chosen project</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>

### Grading of Student Achievement:

#### Grading Pattern:

Standard

Refer to Grading of Courses in the Academic Regulations for Taught Postgraduate Degrees.

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## Part III

### Keyword Syllabus:

Statistics, Quantitative method, Statistical analysis, Hypothesis test

### Recommended Reading:

- **Texts:**
    1. Agresti A. and Finlay B. (2008) *Statistical Methods for the Social Sciences*, 4th Edition, Pearson
    2. Moore, D. and Notz, W. (2006) *Statistics: Concepts and Controversies*, 6th Edition, Freeman
    3. Meier, K., Brudney J. and Bohte, J. (2006) *Applied Statistics for Public and Nonprofit Administration*, 6th Edition, Thomson Wadsworth
    4. Utts J. M. and Heckard R. F. (2007) *Mind on Statistics*, 3rd Edition, Thomson
  - **Online Resources:**
    1. Nil
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