

## 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>	Sustainable Urban Development
<b>Course Code:</b>	CA6242
<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>	P6
<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:

To understand the key concepts for the sustainable design of buildings and landscapes, including concepts that form the core of the U.S Green Building Council rating system (LEED) and the Hong Kong Green Building Council rating system (BEAM); to explore the LEED, BEAM and other accreditation systems; to examine sustainability issues of concern to planners, such as resource conservation, urban growth, environmental justice, industrial development, social equity, sustainable agriculture, and economic development.

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

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

No.	CILOs	Weighting (if applicable)
1.	Discover the sustainable design of buildings and landscapes;	---
2.	Apply rating methods, LEED, BEAM and etc, for analyzing sustainability of buildings;	---
3.	discover various issues for sustainability issues of concern to planners;	---
4.	Criticize urbanization and sustainability.	---

**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 and tutorials</li> <li>Case studies to appreciate sustainable design of buildings and landscapes</li> </ul>	15
CILO 2	<ul style="list-style-type: none"> <li>Lectures and tutorials</li> <li>Case studies: rating methods, LEED, BEAM and etc, for analyzing sustainability of buildings</li> </ul>	9
CILO 3	<ul style="list-style-type: none"> <li>Lectures and tutorials</li> <li>Case studies: sustainability issues concerning planners, architects and engineers</li> </ul>	9
CILO 4	<ul style="list-style-type: none"> <li>Case studies: urbanization and sustainability</li> </ul>	6

**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:** 100%

**Examination:** 0%

CILO No.	Type of assessment tasks/activities	Weighting (if applicable)	Remarks
CILO 1	<ul style="list-style-type: none"> <li>Quiz in class and project/ assignment</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>
CILO 2	<ul style="list-style-type: none"> <li>Quiz in class and project/ assignment</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>
CILO 3	<ul style="list-style-type: none"> <li>Quiz in class and project/ assignment</li> </ul>	---	<ul style="list-style-type: none"> <li>Nil</li> </ul>
CILO 4	<ul style="list-style-type: none"> <li>Quiz in class and project/ assignment</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 and to the **Explanatory Notes**.

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## Part III

### Keyword Syllabus:

Key concepts for the sustainable design of buildings and landscapes; U.S Green Building Council rating system (LEED) and the Hong Kong Green Building Council rating system (BEAM); LEED, BEAM and other accreditation systems; sustainability issues concerning planners, architects and engineers; resource conservation, urban growth, environmental justice, industrial development, social equity, sustainable agriculture, and economic development.

### Recommended Reading:

- **Texts:**

1. John Lund Kriken with Philip Enquist and Richard Rapaport. City building: nine planning principles for the twenty-first century. New York : Princeton Architectural Press, c2010.
2. Asif Syed. Advanced building technologies for sustainability. Hoboken, N.J. : John Wiley & Sons, c2012.
3. Charles Bloszies. Old buildings, new designs: architectural transformations /foreword by Hugh Hardy. New York : Princeton Architectural Press, c2012.
4. Urban sustainability and governance : new challenges in Nordic-Baltic housing policies / Arild Holt-Jensen and Eric Pollock, editors. New York : Nova Science Publishers, c2009.
5. Urban sustainability in the context of global change : towards promoting healthy and green cities / editors, R.B. Singh. Enfield, N.H. : Science Publishers, c2001.
6. Achieving sustainable urban form / edited by Katie Williams, Elizabeth Burton and Mike Jenks. London : New York : E & FN Spon, 2000.

- **Online Resources:**

1. <http://www.hkgbc.org.hk/chi/beampractitioners.aspx>
2. <http://www.usgbc.org/Default.aspx>