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

Part I

Course Title:	Integrated Studio - High-Rise Buildings
Course Code:	CA29103
Course Duration:	1 Semester
No. of Credit Units:	6
Level:	A2
Medium of Instruction:	English
Prerequisites:	BST21082 Integrated Studio - Medium-Scale Buildings; or CA29102 Integrated Studio - Medium-Scale Buildings
Precursors:	Nil
Equivalent Courses:	BST21083 Integrated Studio - High Rise Buildings; or BST21283 Integrated Architectural Studio 3 and BST21284 Integrated Architectural Studio 4
Exclusive Courses:	Nil

Part II

1. **Course Aims:**

    This course aims to reinforce your understanding of the integration of social, structural, statutory and other technical considerations in building design relating to the development of a high-rise building.

2. Course Intended Learning Outcomes (CILOs)

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

No.	CILOs	Weighting*
1.	_Review_ information from various sources critically to facilitate the solving of problem cases and preparation of design proposals.	1
2.	_Compile_ and _communicate_ the essential information of a problem solution or design proposal through written, graphic and verbal means in a structured and coherent manner.	1
3.	_Integrate_ the requirements of building and development control legislations into the design of a high-rise building project.	2
4.	_Integrate_ various sustainable strategies into the design and development of a building project.	2
5.	_Develop_ architectural design proposals to satisfy the functional and technical requirements of a high-rise building project.	3
6.	_Formulate_ solutions for various problems relating to high-rise building development.	3

*Weightings are assigned to the CILOs according to their **relative importance** to the course (3 = most important).

3. 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)

This course adopts a Project- and Problem- Based Learning (PPBL) approach supported by a series of seminars and runs in conjunction with a number of subject area courses (BST21070 Professional Practice, BST21053 Technical Studies – Design Development and BST21042 Social Studies – History of Architecture and Urbanism). It consists of one individual design project and two problem cases, in which teaching and learning are conducted through a combination of individual, team-based, small-class and large-class activities. You are expected to integrate the knowledge and skills that you have acquired from subject area courses to develop design proposals and solve the problem cases.

- You will achieve CILO 1 through the formation phases (problem formulation, research, discussion, analysis, brief interpretation, schematic design, etc.) of the design projects and problem cases.
- You will achieve CILO 2 through the presentation phases (studio critique, interim and final presentations) of the design projects and problem cases.
- You will achieve CILOs 3 to 5 mainly through the development and production phases (development of design proposal) of the design projects. Knowledge and information acquired from the problem cases and seminars on specific topics will further supplement your learning to facilitate the achievement of these CILOs.
- You will achieve CILO 6 through the small-team problem solving process of the problem cases.

TLAs	Design Project	Problem Case	Supervision	Total (hrs)
CILO 1	4	2		6
CILO 2	4	2		6
CILO 3	10.5	2	0.5	13
CILO 4	10.5	2	0.5	13
CILO 5	17	2	1	20
CILO 6		20		20
Total (hrs)	**46**	**30**	**2**	**78**

1. A **Design Project** engages you in the production of an integrated proposal for a building in response to a set of constraints and requirements. Teaching and learning are conducted through regular studio classes in which you will develop your design proposals with a studio tutor.
2. A **Problem Case** engages you in the solving of a building-related problem. Teaching and learning are conducted through individual research and regular problem classes, in which you will discuss and share information found on a problem under the facilitation of a studio tutor.
3. A **Supervision** is an individual learning activity complementary to the design project of the integrated studio, in which you will discuss your design proposal with a studio tutor on an individual basis.

4. 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% (Design project – 40%, Problem cases – 40%, Portfolio 10%, Reflective Journal 5%, Self- / Peer- Assessment 5%)

- You must attain a minimum mark of 35 in all assessment components AND an overall mark of 40 to pass the course.
- Marks are assigned based on your achievement of ILOs according to the defined marking criteria/rubrics.

ATs	Graphic Presentation	Oral Presentation	Model	Report	Portfolio	Reflective Journal	Self- / Peer- Assessment	Wgt*
CILO 1	●			●		●	●	1
CILO 2	●	●		●	●		●	1
CILO 3	●		●	●	●		●	2
CILO 4	●	●	●	●	●		●	2
CILO 5	●	●	●	●	●		●	3
CILO 6		●		●		●	●	3
Total (%)	30	10	5	35	10	5	5	

*Weightings (Wgt) are assigned to the CILOs according to their **relative importance** to the course (3 = most important).

1. This course consists of one design project, two problem cases, and a reflection/improvement submission at the end of the semester. Submissions for each project stage and problem cases include a combination of assessment tasks as tabulated in the above table.
2. A **Graphic Presentation** for the integrated studio can consist of one graphic form or a combination of different forms including various types of 2-dimensional and 3-dimensional diagrams, sketches, drawings and renderings produced manually or digitally by computer.
3. An **Oral Presentation** is a verbal explanation of a design proposal or a problem solution for the integrated studio.
4. A **Model** is a scaled physical representation of the whole or part of a design proposal for the integrated studio to illustrate various aspects of the design.
5. A **Report** is a bound document containing information relating to a problem solution or selected aspects of a design project for the integrated studio.
6. A **Portfolio** is a comprehensive record of your works completed for a design project and consists of a folder containing preliminary, submitted and improvement works done for the design project component of the integrated studio.
7. A **Reflective Journal** is a reflective statement of your own learning and experience of the problem cases of the integrated studio.
8. **Self- and Peer- Assessments** are your assessment of the performance of yourself and your team members in the problem cases of the integrated studio based on a number of criteria.

5. Grading of Student Achievement: Refer to Grading of Courses in the Academic Regulations.

CILO 1	*Review* information from various sources critically to facilitate the solving of problem cases and preparation of design proposals.
A+/A/A–	Review relevant information from all required plus additional sources. Thorough attempt to evaluate critically the various types of information to facilitate the solving of problem cases and preparation of design proposals.
B+/B/B–	Review relevant information from all required sources. Adequate attempt to evaluate critically the various types of information to facilitate the solving of problem cases and preparation of design proposals.
C+/C/C–	Review relevant information from most required sources. Limited attempt to evaluate critically the various types of information to facilitate the solving of problem cases and preparation of design proposals.
D	Partial review of relevant information from a limited number of sources for the solving of problem cases and preparation of design proposals.
F	Inability to review relevant information critically for the solving of problem cases and preparation of design proposals.
CILO 2	*Compile* and *communicate* the essential information of a problem solution or design proposal through written, graphic and verbal means in a structured and coherent manner.
A+/A/A–	Clear and comprehensive compilation of the essential information of a problem solution and design proposal. Thorough attempt to communicate the various types of information through written, graphic and verbal means.
B+/B/B–	Clear compilation of the essential information of a problem solution and design proposal. Adequate attempt to communicate the various types of information through written, graphic and verbal means.
C+/C/C–	Adequate compilation of the essential information of a problem solution and design proposal. Limited attempt to communicate the various types of information through written, graphic and verbal means.
D	Partial compilation and communication of some essential information of a problem solution and design proposal through written, graphic and verbal means.
F	Inability to compile and communicate the essential information of a problem solution and design proposal through written, graphic and verbal means.
CILO 3	*Integrate* the requirements of building and development control legislations into the design of a high-rise building project.
A+/A/A–	Comprehensive and essentially accurate integration of the requirements of building and development control legislations into the design of a high-rise building project.
B+/B/B–	Adequate and mostly accurate integration of the requirements of building and development control legislations into the design of a high-rise building project.
C+/C/C–	Partial integration of the requirements of building and development control legislations into the design of a high-rise building project.
D	Minimal integration of the requirements of building and development control legislations into the design of a high-rise building project.
F	Inability to integrate the requirements of building and development control legislations into the design of a high-rise building project.
CILO 4	*Integrate* various sustainable strategies into the design and development of a building project.
A+/A/A–	Thorough and innovative integration of sustainable strategies into the design and development of a building project.
B+/B/B–	Good integration of sustainable strategies into the design and development of a building project.
C+/C/C–	Limited integration of sustainable strategies into the design and development of a building project.
D	Minimal integration of sustainable strategies into the design and development of a building project.
F	Inability to integrate sustainable strategies into the design and development of a building project.
CILO 5	*Develop* architectural design proposals to satisfy the functional and technical requirements of a high-rise building project.
A+/A/A–	Development of innovative architectural design proposals for a high-rise building project. Thorough and skilful integration of all aspects of the design to satisfy the functional and technical requirements.
B+/B/B–	Development of workable architectural design proposals for a high-rise building project. Adequate integration of all aspects of the design to satisfy the functional and technical requirements.
C+/C/C–	Development of largely resolved architectural design proposals for a high-rise building project. Partial integration of aspects of the design to satisfy the functional and technical requirements.

D	Development of partially resolved architectural design proposals for a high-rise building project. Minimal integration of aspects of the design to satisfy the functional and technical requirements.
F	Inability to develop coherent and feasible architectural design proposals to satisfy the functional and technical requirements of a medium-scale project.
CILO 6	***Formulate* solutions for various problems relating to high-rise building development.**
A+/A/A–	Formulation of in-depth and coherent solutions for various problems relating to high-rise building development.
B+/B/B–	Formulation of coherent solutions for various problems relating to high-rise building development.
C+/C/C–	Formulation of largely coherent solutions for various problems relating to high-rise building development.
D	Formulation of partial solutions for various problems relating to high-rise building development.
F	Inability to formulate coherent solutions for various problems relating to high-rise building development.

Part III

Keyword Syllabus:

Architectural design: High-rise building development; office buildings; residential buildings; sustainable strategies in design.

Design integration: Building and development control legislations in design; integration of high-rise structural systems; selection of building envelope systems and materials; detailing of advanced building components.

Communication: Advanced graphic and verbal presentation.

Recommended Reading:
Text(s):

1. Bailey, S. (1990). *Offices*. London: Butterworth Architecture.
2. Chandler, R. [et al.] (2005). *Building type basics for housing*. Hoboken: J. Wiley & Sons.
3. Eisele, J. and Kloft, E. [ed.] (2003). *High-rise manual*. Basel: Birkhauser.
4. Foster, J.S. (2007). *Structure and fabric part 2 (7th ed)*. New York: Pearson/Prentice Hall.
5. Kohn, A.E. and Katz, P. (2002). *Building type basics for office buildings*. New York: John Wiley & Sons.
6. Marmot, A. and Eley, J. (2000). *Office space planning: designing for tomorrow's workplace*. New York: McGraw-Hill.
7. Poon, T. and Chan, E. [ed.] (1998). *Real Estate Development in Hong Kong*. Hong Kong: Pace Publishing Ltd.
8. Wong W.S. and Chan, E. [ed.] (1997). *Professional practice for architects in Hong Kong*. Hong Kong: Pace Pub.
9. BD (Latest Edition). *Codes of Practice and Design Manuals*. Buildings Department Hong Kong.
10. BD (Latest Edition). *Practice Notes for AP and RSE*. Buildings Department Hong Kong.
11. Statute Laws of Hong Kong Chapter 123 (Latest Edition). *Buildings Ordinance and Regulations*.

Online Resources:

1. Course Blackboard site.
2. Buildings Department website – *www.bd.gov.hk*.