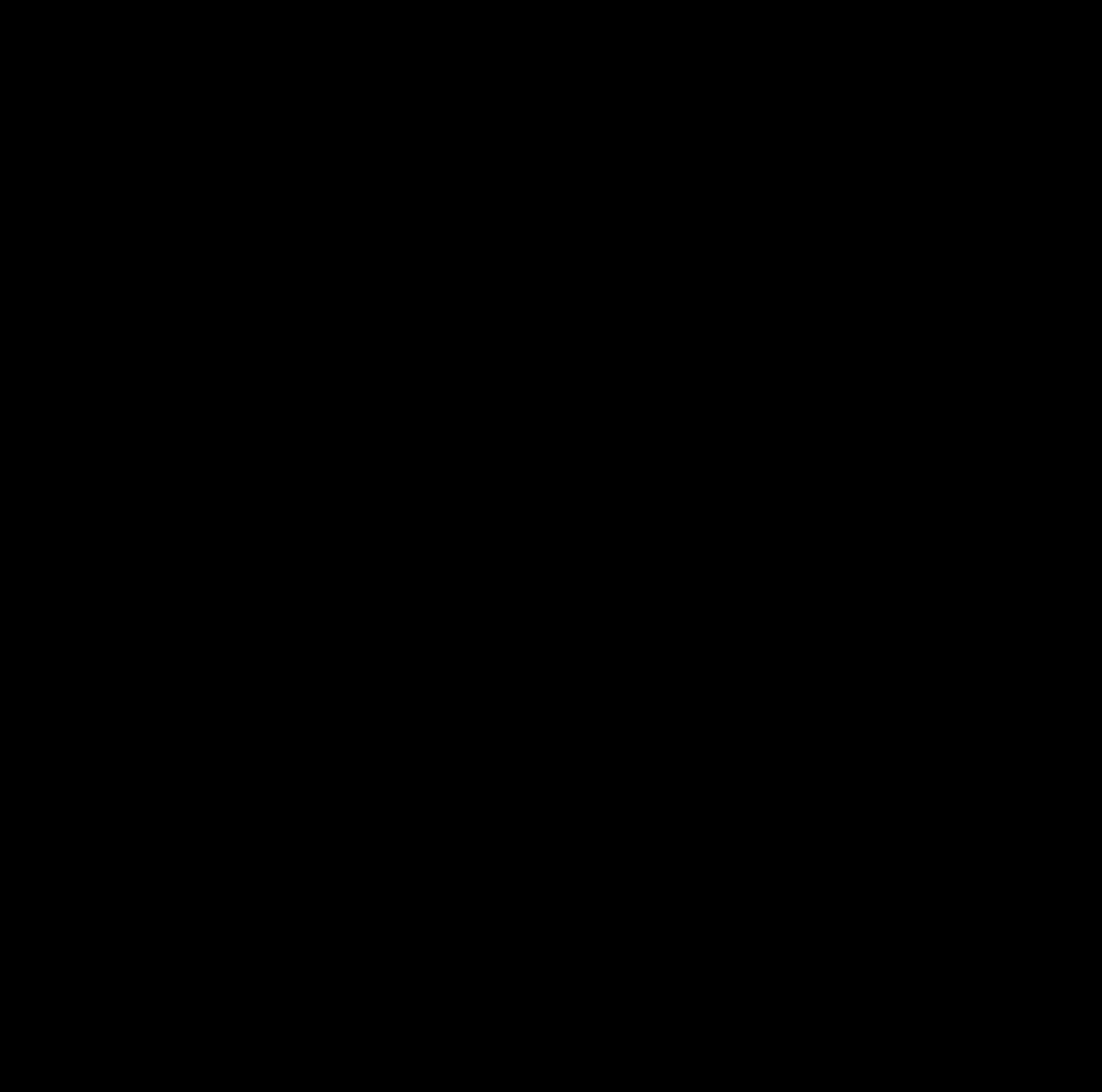


SCHOOL OF ARCHITECTURE · CUHK · 2016 - 2017





Message from the Director

"To raise questions, new possibilities, to regard old problems from a new angle requires creative imagination and marks real advance in science." (Albert Einstein)

Substitute "architecture" for "science" in Einstein's statement, and you have an equally credible description of design creativity in our field. So, what is the path to raising questions and new possibilities in architecture in order to achieve innovative design solutions?

On one hand, I believe it requires a balance of both core competence and critical thinking. And, what underpins both of these endeavours is discipline – without discipline, there is no creativity, whether in the arts or sciences. Both our undergraduate BSSc (AS) and postgraduate MArch degree programmes have been formulated and refined over the years at CUHK to enable this disciplined learning and discovery about architecture and design methodologies in order to connect process with praxis.

On the other hand, at the risk of sounding contradictory, there needs to be acceptance of failure during this process. In other words, an open-minded willingness for risk-taking, trial-and-error, and self-critiquing in an iterative, disciplined process to inform creative imagination that is not imaginary or fanciful, but truly innovative and hopefully impactful. The road to design inspiration leads through these so-called failures and learning from them at each successive step. As Thomas Edison famously said, "I have not failed. I've just found 10,000 ways that won't work."

Thus, designing, like other artistic pursuits – whether painting, writing, or composing music – is a commitment to craft which reveals new creative insights from its process. Among all the arts, architecture has the most impact since it is not art for its own sake or enjoyment but social art in service of people and their activities.

Finally, 2016 is a significant year in the history of our School of Architecture at CUHK. Our programme was first launched in October 1991. This academic year, we will celebrate the 25th anniversary of the founding of our School with symposiums and exhibitions for our School's alumni and students under the theme of Imagine. Innovate. Impact.

Nelson Chen FHKIA FAIA RIBA
Professor of Practice in Architecture
Director, School of Architecture



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Programme Overview

Professional Programme

BSSc (AS) Architectural Studies

The Bachelor of Social Science (Architectural Studies) - BSSc (AS) - is the first part of a two-degree sequence in professional architectural education. This sequence is designed to provide a basis for education in general and preparation for professional work as an architect in particular. Students are encouraged to enrich their core of studies in architecture by exploring lateral relationships with other subjects and disciplines as well as through independent study and experience of other cultures. The core of studies consists of design studios in addition to courses offered in humanities, technology and profession.

MArch Architecture

The Master of Architecture programme – MArch - is the second part of a two-degree sequence in professional architectural education. As such, it is a taught postgraduate programme for students who intend to become architects. The programme offers a series of research-based advanced studios and independent design explorations which both articulate an intellectual position and demonstrate the impact of that position in design. Applicants should have a pre-professional architecture degree (equivalent to HKIA or CAA accreditation), such as the BSSc (AS) from CUHK, and relevant work experience.

Joint Programme

BSSc (US) Urban Studies

The Bachelor of Social Science (Urban Studies) - BSSc (US) - is designed for students to explore the complexities and challenges of the rapidly evolving urban world, global urbanization processes and various strands of urbanism. It is jointly organized by the Department of Geography and Resource Management and the School of Architecture, with input by various departments in the Faculties of Social Science and Arts. Besides the learning of theories of urban development, the rigorous application of skills and techniques for urban analysis, and the contextual understanding of sustainable practices, students are required to develop expertise in concentration areas such as urban planning and design, urban environment, or urban policy and governance.

Postgraduate Programmes

MSc Urban Design

Over the past decades, Hong Kong and the Pearl River Delta have been a laboratory of urbanism. Rapid urban growth, mass migration and new policies have led to new urban forms, but environmental deterioration and social imbalance have also increased. Urban design can play an important role to create more liveable and sustainable cities if it is able to integrate knowledge about ecological, economic, and social issues and is based on a clear set of values. The MSc programme in Urban Design is based on a fundamental understanding of environmental and urban economics as well as urban history. Combining design studios and focused course modules, it aims to integrate specific knowledge about urban processes, complex ecosystems and transport networks. The modules act as catalysts for the studio projects, and are organized as think tanks in which students discuss with experts from academia and practice. After an additional period of professional experience, graduates can apply for professional registration from the Hong Kong Institute of Urban Design (HKIUD).

MSc Sustainable and Environmental Design*

The MSc in Sustainable and Environmental Design is a taught postgraduate programme for practitioners in all sectors of the building industry. It usually requires one year of full-time study or two years part-time. Applicants should have a bachelor's degree and work experience in a related field.

* not offered in 2016-2017.

MPhil

The MPhil is a research degree. Students learn primarily by doing independent original research, usually by participating in the work of the School's design studios or research units in Chinese architectural heritage, community participation, computation and simulation, sustainable and environmental design, or housing. In some cases, students may also pursue their own topics, if feasibility of the topic can be demonstrated upon application.

PhD

The PhD is a research degree. Students learn primarily by conducting independent original research, usually by participating in the work of the School's design studios or research units in Chinese architectural heritage, community participation, computation and simulation, sustainable and environmental design, or housing. In some cases, students may also pursue their own topics, if feasibility of the topic can be demonstrated upon application.

Curriculum

	Studio	Humanities	Technology	Design Computation	Professional Practice	Electives and Year I Faculty Package
BSSc(AS) 1	<i>arch 1001</i> Introduction to Architecture					Students elect two non-architecture courses from the Social Science Faculty Package (except advanced standing students who elect one).
BSSc(AS) 2	<i>arch 2111 / arch 2112</i> Introduction to Architectural Design I & II [U1 / U2]	<i>arch 2320</i> Architecture Fundamentals <i>arch 2321</i> Architectural History and Theory I (Asian Architecture)	<i>arch 2422</i> Building Technology I (Materials and Construction)	<i>arch 2221</i> Graphics and Visual Studies		
BSSc(AS) 3	<i>arch 3113 / arch 3114</i> Architectural Design Studios I & II [U3 / U4]	<i>arch 3322</i> Architectural History and Theory II (Western Architecture)	<i>arch 3423</i> Building Technology II (Building Structure) <i>arch 3424</i> Building Technology III (Environmental Technology)	<i>arch 3222</i> Digital Design Methods		
BSSc(AS) 4	<i>arch 4115 / arch 4116</i> Architectural Design Studios III & IV [U5 / U6]	<i>arch 4323</i> Architectural History and Theory III (Modern Architecture) <i>arch 4721</i> Land and City	<i>arch 4425</i> Building Systems Integration			<i>arch 4531</i> Topical Studies in Professional Practice and Management <i>arch 4731</i> Topical Studies of Cities
total units	78	33	15	12	6	12
Year Out						
MArch 1	<i>arch 5111 / arch 5112</i> Advanced Architectural Design Studios I & II	<i>arch 5321</i> Architectural Theory and Criticism <i>arch 5721</i> Urban Design and Planning	<i>arch 5421</i> Advanced Environmental Systems <i>arch 5422</i> Advanced Structures and Construction			<i>arch 5131</i> Topical Studies in Design Theory <i>arch 5231</i> Topical Studies in Computational Design <i>arch 5331</i> Topical Studies in History, Theory and Criticism <i>arch 5431</i> Topical Studies in Building Technology <i>arch 5531</i> Topical Studies in Professional Practice and Management <i>arch 5731</i> Topical Studies in Urbanism
MArch 2	<i>arch 6113 / arch 6114</i> Thesis Project I & II				<i>arch 6521</i> Professional Practice and Management	
total units	52	28	6	6	3	9

Calendar

2016-17 Term 1

week	event	date
1	First teaching day / All school meeting	05.09 M
2	Day following Mid Autumn Festival	12.09 M 16.09 F
3		19.09 M
4		26.09 M
5		03.10 M
6	Day following Chung Yeung Festival	10.10 M
7		17.10 M
8		24.10 M
9		31.10 M
10	Course evaluation week	07.11 M
11		14.11 M
12		21.11 M
13	Final review week (BSc)	28.11 M 30.11 W
14	Final review week (MArch / MSc) Examination period begins	05.12 M 07.12 W
15	Portfolio submission	12.12 M 16.12 F

2016-17 Term 2

week	event	date
1	First teaching day	09.01 M
2		16.01 M
3	Lunar New Year holiday begins	23.01 M 27.01 F
4	Lunar New Year holiday ends	30.01 M 02.02 Th
5		06.02 M
6		13.02 M
7		20.02 M
8		27.02 M
9		06.03 M
10		13.03 M
11		20.03 M
12	Course evaluation week	27.03 M
13	Ching Ming Festival	03.04 M 04.04 T
14	Easter holiday begins	10.04 M 14.04 F
15	Easter holiday ends Final review week (BSc)	17.04 M 19.04 W
16	Final review week (MArch / MSc) Examination period begins	24.04 M 26.04 W
17	Labour Day Birthday of the Buddha Portfolio submission	01.05 M 03.05 W 05.05 F

BSSc(AS)

Programme Director
Thomas Chung

The Bachelor of Social Science (Architectural Studies) programme is designed to provide a basis for education in general and preparation for professional work as an architect in particular. The core of studies consists of design studios in addition to courses offered in humanities, technology, professional practice and design computation.

Design studios are structured in a sequential manner through the six semesters of the programme. The intention is to allow better integration of studio courses and required courses, and to enable students to start from fundamental concepts and advance progressively to more complex issues in architectural design.

The foundation studio in the first semester introduces students to the field of architectural design through studio learning. In the subsequent four studios students learn design skill by either focusing on specific aspects of architecture or by addressing various factors that influence architectural form. Arranged in a sequence, these factors include architectural space conception, human behavior, environmental technology and sustainable design, and urban setting. Students are also required to demonstrate a basic understanding of construction system, structure and material character through their design. In the sixth semester, a culminating studio serves to integrate previous knowledge and themes into a comprehensive architectural design project.

Elective courses are offered to investigate a particular field of architecture. Areas represented in these topical study courses include design theory, architectural history and theory, cities, building technology and computational design. Each elective is created to provide students an opportunity to gain in-depth knowledge of a specific topic or set of issues related to the theory and practice of architecture. Each year repeating as well as new electives are announced with course descriptions to guide students in their selection.

Studio sequence

<i>semester</i>	<i>learning teaching</i>	<i>topic</i>
U1 [arch 2111, T1]	issue tool	<i>Foundation</i>
		design as visual and conceptual process; habitable environments; space as form; abstraction and transformation; form and making; design concept, <i>parti</i> and formal composition
U2 [arch 2112, T2]	process method	<i>Tectonics, Space, Design</i>
		design process; sequential steps; tectonic concept; enveloped, continuous and modular space; spatial composition and tectonic form; graphic representation; digital and physical modeling
U3 [arch 3113, T1]	use programme	<i>Programme and Use</i>
		use of space both functional and symbolic; space planning; human scale and dimension; habitable space; structure (form and organization) on building design
U4 [arch 3114, T2]	force performance	<i>Structure & Passive Environmental Design</i>
		impact of natural forces; tools for measuring design performance; sustainability in architecture; building technology (structure and materials); sustainable and energy efficient design
U5 [arch 4115, T1]	place context	<i>Place Making and Contextual Response</i>
		influences on urban form generation and articulation; interface between architecture and city; contextual design of places; evolution of architecture in cities; making of sustainable cities
U6 [arch 4116, T2]	project articulation	<i>Comprehensive Building Design</i>
		comprehensive project with program and site; conceptual integration of building systems: structure, enclosure and interior space; high resolution and articulation



Studio U1

DESIGN STUDIO



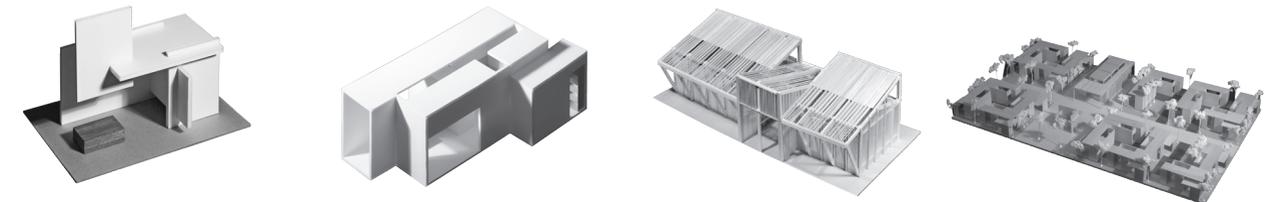
issue | tool

Foundation arch 2111

Studio U1 and U2 are conceived as one integrated program for basic training in architectural design. Its aim is to engage students to the exploration of architectural space. It is intended to cultivate a method of work through which space concept is conceived through working with different types of media, and crystallized with the consideration of habitation and further materialized through the means of building materials and construction. Drawing and model-making skills are taught integrated with exercises. We are interested in the following basic issues: the formation of space and its definition, the internal organization of the building, its parts and their relationship and hierarchy, the form and structure of the building, the material organization in terms of elements, components and systems.

The intent of the first part of the basic training is to introduce students to four key aspects of architecture: space, use, construction, and site. These issues are dealt through design projects. There are four small projects, each of which emphasizes on one particular topic and each consists of several interrelated exercises. At the end, these design projects will be integrated to form a site complex. Model making and hand drawing skills will be taught as an integral part of the design projects.

Gu Daqing / Han Man / Maggie Ma / Sarah Mui / Wu Rui / Zhu Haohao



from left to right: cheng wai tat justin; chung man wei jenny; law pui shuen; leung kin kan.

REQUIRED COURSES

Introduction to Architecture

arch 1001 Bruce Lonman t1/t2

This course is an introduction to architecture design focusing on the fundamentals of process, analysis, concept and representation. A principle theme is the understanding of space as a medium in architecture possessing form. The course consists of a series of abstract design-model exercises exploring the parameters and visual form of architectural space while emphasizing the basic elements and principles of architectural composition.

Graphics and Visual Studies

arch 2221 Gu Daqing t1

This course is an investigation of visual form through a process of seeing, thinking and drawing. It intends to develop a deeper visual perception by enriching student's visual experience, to introduce them to various visual phenomena, to encourage them to explore their own living environment, all of which will contribute to building the visual fundamentals of design.

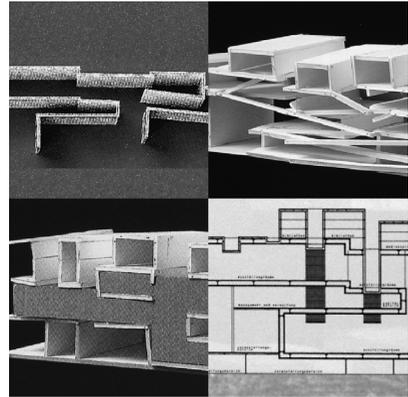
Architecture Fundamentals

arch 2320 Gu Daqing t1

The intent of the course is to introduce architecture and its scope and structure as a formal subject. The course is designed as an integral part of the design studio (arch 2111) in a way that main topics are introduced in the same sequence with the studio projects. The course is about how to look at architecture and how to gain knowledge about architecture through observation, analysis, and discovery. The course covers four main topics as space, habitation, construction and urbanization.

Studio U2

DESIGN STUDIO



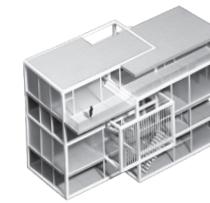
process | method

Tectonics, Space, Design arch 2112

Studio U1 and U2 are conceived as one integrated program for basic training in architectural design. Its aim is to engage students to the exploration of architectural space. It is intended to cultivate a method of work through which space concept is conceived through working with different types of media, and crystallized with the consideration of habitation and further materialized through the means of building materials and construction. Drawing and model-making skills are taught integrated with exercises. We are interested in the following issues: the formation of space and its definition; the internal organization of the building, its parts and their relationship and hierarchy; the form and structure of the building; the material organization in terms of elements, components and systems.

The intent of the second part of the basic training is further to consolidate students' design skills developed in the first term through one design project. This project will be dealt in four phases: conception, organization, articulation, and realization. Each phase consists of several interrelated exercises. Beside model making and hand drawing skills, we will also introduce basic skills in CAD.

Gu Daqing / Filipe Afonso / Ida Sze / Wu Rui / Caroline Wüthrich / Zhu Haohao



from left to right: chung man wei jenny; tam wing nga; cheng wai tat justin; lam ho yu jacky.

REQUIRED COURSES

Architectural History and Theory I: Asian Architecture

arch 2321 TBC t2

Buildings are physical expressions of a culture. They are the embodiments of the physical needs of people as well as their aspirations. From the fundamental requirements of a shelter to accommodating transcendental desires as in a religious structure, buildings are the most visible artifacts that make up our civilization. This first course in architectural history will focus on the buildings of China during imperial times, and its ramifications in East Asia.

Building Technology I (Materials and Construction)

arch 2422 Zhu Jingxiang t2

The course is designed for studies in materials and construction with an approach based on operation and observation exercises. The process of integrating knowledge framework, observation skill and exploration ability related to architectural and construction practice is emphasized. Students will learn to appreciate the essential knowledge of basic building materials, the ethics of using materials and the importance of tectonic and technical issues.

SSF PACKAGE

Understanding Cities

arch 1002 Alfred Yeung t2

This course introduces fundamental ways of understanding cities. Greater than 50% of the world's population is now urbanized and this percentage continues to grow. Consuming 75% of world energy production while generating 75% of its waste and pollution, cities have become increasingly dysfunctional. The key questions we will address are: Why has city life, with all its advantages and disadvantages, become the dominant form of living? Will it continue to be the case for our children and future generations?

GENERAL EDUCATION

Experiencing Architecture

arch 1320 Raymond Fung t2

This course is specially designed with such "guided experience" for students of non-architecture major. It offers opportunities for students to have real life interaction with architecture, especially of local context; whilst providing a platform for students to have direct dialogue with the designers who have created it.

ACTIVITY

Facility

introduction to model workshop
introduction to laser cutter workshop
introduction to library

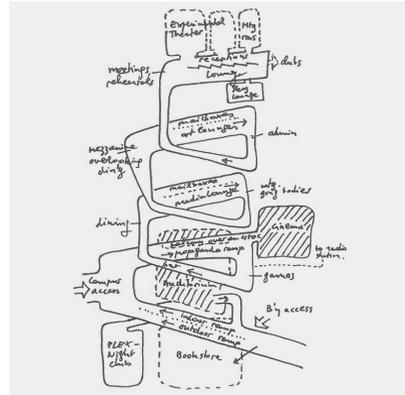
Studio U3

DESIGN STUDIO

use | programme

Programme and Use arch 3113

Kelly Chow / Chris Bene / Adam Fingrut / Sarah Lee / Betty Ng



“Form follows function” is perhaps the best-known equation of use and accommodation. That the programme, labeled “function”, is an important consideration in the formulation of architecture is clear. However, human activity, and the specific details of that activity manifested in a formal language is at the very heart of architecture – the routines of life and the spatial conditions that allow them to be accommodated, expressed and constituted. Each activity has conditions of movement, action, location, and occupation that must meet both the pragmatics and the poetics of place making.

This studio will ground architectural design in the investigation of programme and use. Students will engage in processes, which evolve from their own spatial experience, toward an understanding of the relationship between use and a cultural context. Initial design ideas will be developed through program research, study of precedents, testing of scenarios, and the synthesis of programmatic understanding into spatial organization.



REQUIRED COURSES

Digital Design Methods

arch 3222 Adam Fingrut t1

This foundation course builds a progressive understanding of computational space, exploring forms generated only by parameter based criteria. Computation is introduced as a strategy for design. The course prioritizes digital tools, not as a simple representation of reality, but as part of a generative process to devise problem-specific tools and control the growing complexities of contemporary architectural design.

Building Technology II (Building Structure)

arch 3423 Bruce Lonman t1

Emphasizing the role of structure in architecture, the course is organized according to four basic categories of structure described by Engel (1968). Each type is studied to understand physical performance characteristics based on the action of forces as well as the design parameters determined by economy, life safety and architectural context. Exercises employing physical models, graphic statics form-finding and standard member selection design charts provide exposure to the selection and configuration of a few basic structural systems.



top left: fung ching wai; bottom left: wang haoran; right: stoveken c.

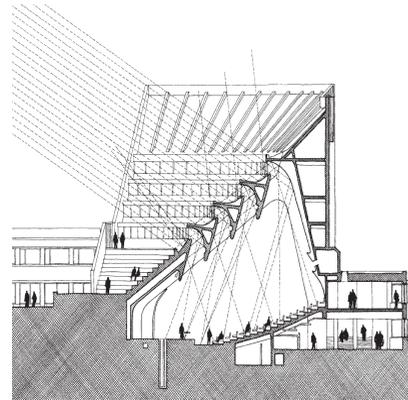
Studio U4

DESIGN STUDIO

force | performance

Structure & Passive Environmental Design arch 3114

Bruce Lonman / Chris Bene / Kelly Chow / Betty Ng / Yutaka Yano



otaniemi technical university auditorium, alvar aalto, from sun, wind & light, by g.z.brown and mark deKay

Studio U4 addresses architectural issues with a particular focus: to examine the role of building technology in architectural design. More comprehensively, studio projects engage design in ways that relate to architectural theories, design technologies, critical innovations, and pragmatic processes. The design project provides a context for understanding the forces of nature and their impact on the design of buildings. The studio employs a systematic approach that begins with identifying real or perceived potentials latent in the physical environment, developing them as an architectural strategy, and lastly evaluating performance through either simulation or physical model testing.

Emphasis is placed on two important areas of building technology: climate responsive design and building structure and construction. Both areas offer design opportunities that can contribute to reduced energy consumption and a sustainable environment. Passive environmental design strategies are stressed and the use of sustainable building materials is incorporated. Projects are situated in contrasting climate zones (e.g., tropical / rainforest versus cold / continental) that offer different challenges in achieving the "well tempered environment".

Principal themes of the studio summarized are:

- Natural forces serve as primary generators of form and architectural intention.
- Building technologies can be an inspiration and basis for architectural strategy.
- Making describes a process involving materials and their fabrication, connection and assembly.
- Performance evaluation allows us to predict and measure outcomes by means of physical modeling, proto-type testing and computer simulation.

REQUIRED COURSES

Architectural History and Theory II: Western Architecture

arch 3322 Stan Fung t2

This course is an introduction to the history and theory of Western architecture from Classical Greece to contemporary times. It is primarily concerned with four themes: (1) concepts of geometry and proportion, (2) concepts of architectural representation, (3) professionalism and the institutionalization of architecture, and (4) the relationship between architecture and engineering since the 19th century.

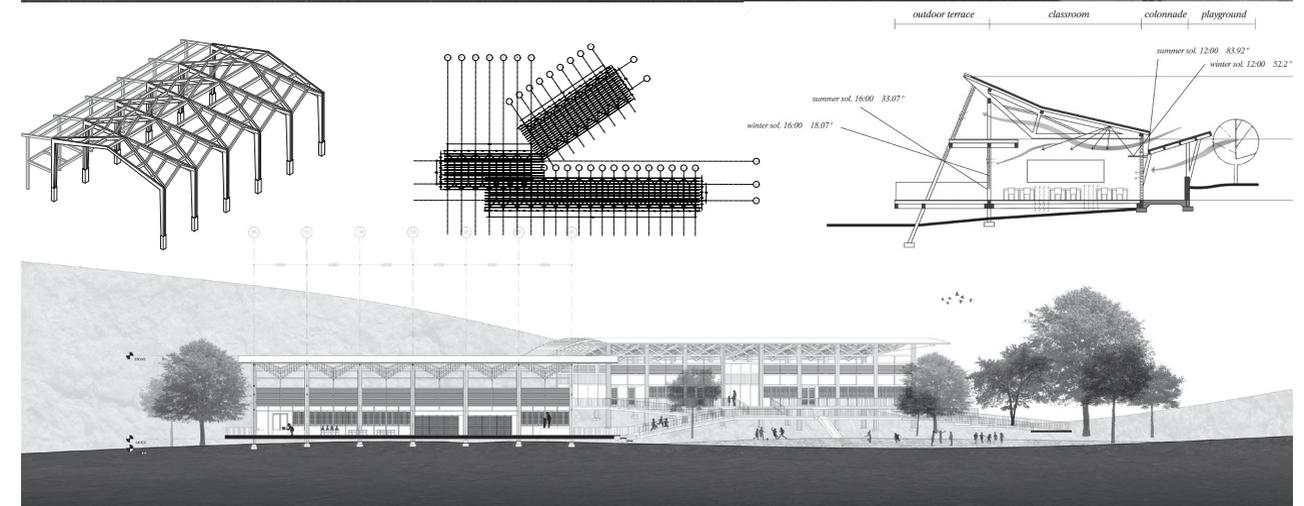
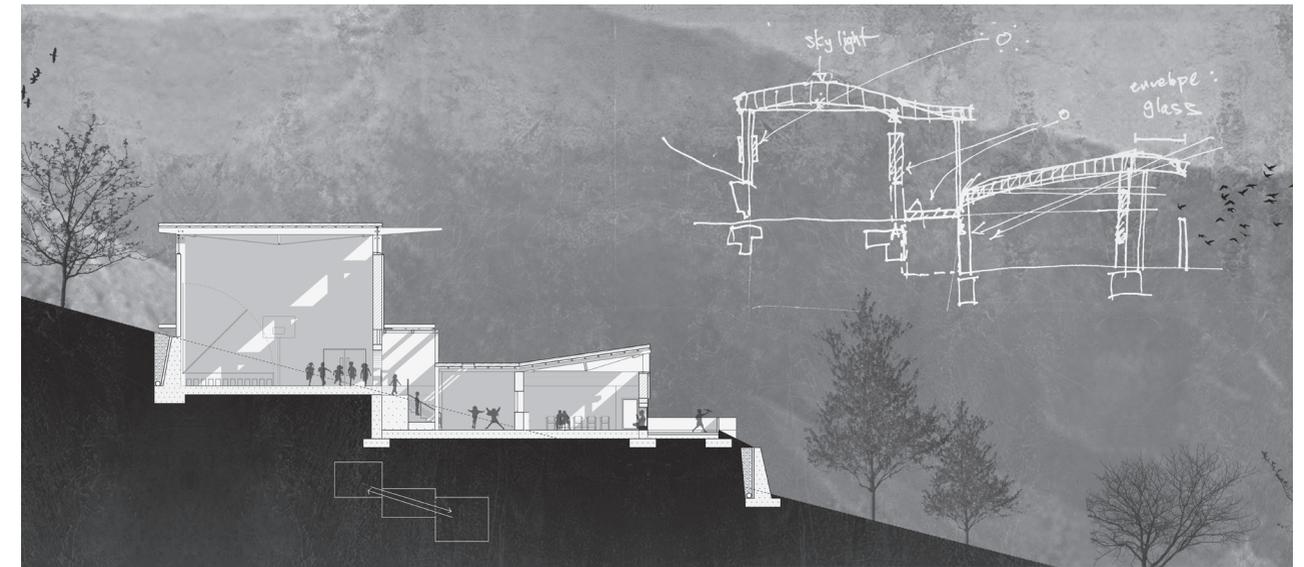
Building Technology III (Environmental Technology)

arch 3424 Edward Ng t2

Introduces the fundamental concepts of passive environmental design. Examines the effect on buildings and their occupants of environmental conditions of light, temperature, air movement, and sound. Case studies are used to reviews both traditional and current approaches of representative building types in more depth.

ACTIVITY

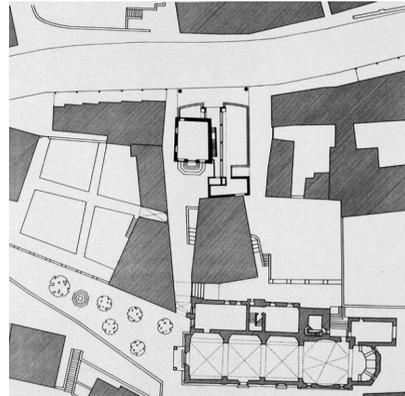
A digital computing workshop is offered at the beginning of the term for the U4 studio. This workshop provides an introduction to applications enabling performance simulation of lighting and air movement.



top: chen wei; middle: sherry ma, michelle ho, alex li; bottom: michelle ho.

Studio U5

DESIGN STUDIO



Luigi Snozzi

place | context

Place Making and Contextual Response arch 4115

This studio investigates contextual response and place-making in architecture. This year, using an urban-landscape interface as site context, the studio searches for the design of architecture and settings so as to respond to: 1) the disintegration of urban fabric; 2) the ineffective use of space; and 3) the lack of a coherent urban plan. The studio attempts to use architectural design as a vehicle to explore alternative urban strategies to current planning practices in Hong Kong, through the making of meaningful places - supported by connectivity, openness and publicness – a task that is ever more pressing in the contemporary city.

This year, our theme is collective living as place-making. The studio includes three parts. Part 1: Case Study, Part 2: Site analysis, strategy and response, Part 3: articulation and place-making. The design project will focus on the design of a residential programme together with appropriate communal and open spaces in dialogue with the existing urban fabric. In parallel, studio seminars will include the theories and ideas of architecture of relevance to this studio.

REQUIRED COURSE

Building Systems Integration

arch 4425 Wilson Yik t/l

This course combines fundamental topics of materials and construction, building structures, and environmental technology in order to provide a holistic overview of the design and integration of these systems in building design and construction. Investigation of how principles are integrated to meet various sustainability aspirations in the 21C will be done through building case studies and professional practice overviews. Learning through application will also be emphasized in a term project involving building systems integration and different scales of applicability.

Land and City

arch 4721 Liao Kuei Hsien t/l

This course introduces students to various socioeconomic and geophysical processes that shape cities and affect urban growth. The course is organized into four main subjects to give students an overview of various issues pertaining to the physical development of cities. 1. urban morphology, 2. landscape and urbanism, 3. urban systems, 4. urban sustainability. Each of the modules consists of lectures, as well as seminars where students are divided into smaller groups to discuss required readings.

Patrick Hwang / Sebastian Law / Francesco Rossini / TC Yuet



top left: derek tam; top right: wendy tang; bottom: lo man him.

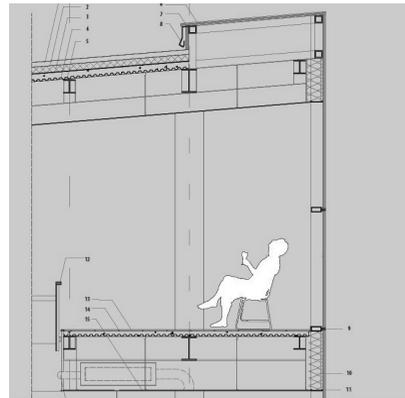
Studio U6

DESIGN STUDIO

project | articulation

Comprehensive Building Design arch 4116

Simon Hsu / Brian Anderson / Sebastian Law / Clover Lee



The intention behind comprehensive building is to guide students in the design of a building that addresses most of the issues common to a medium size building. Some aspects of the design may remain at a schematic level, such as the structural system, the site development or certain building services, such as fire code compliance (the design should demonstrate an understanding of egress requirements and other basic fire safety design rules). Other areas should indicate a level of development beyond previous studio work. The accommodation of programme area requirements should be met and the spatial composition of the plan resolved to a higher level than previous work (compared to U5). The use and functions of the major space should be carefully studied and articulated. The design should satisfy these fundamental requirements while also expressing a design concept that has clarity and a consistent formal order.

Building Systems Integration - structure, envelope and interior

Three principal building systems are considered: structure, envelope and interior. It can be argued that the exterior wall section is the critical building element where the three systems tend to interact the most and require the most attention from the designer. A wall section can assume different characters. It can be a monolithic surface incorporating the functions of both structure and envelope or it can be layered with structure and skin separate and independent. The wall also acts as boundary, its profile defining the shape of interior space and articulating the exterior surfaces.

REQUIRED COURSE

Architectural History and Theory III: Modern Architecture

arch 4323 Thomas Chung t2

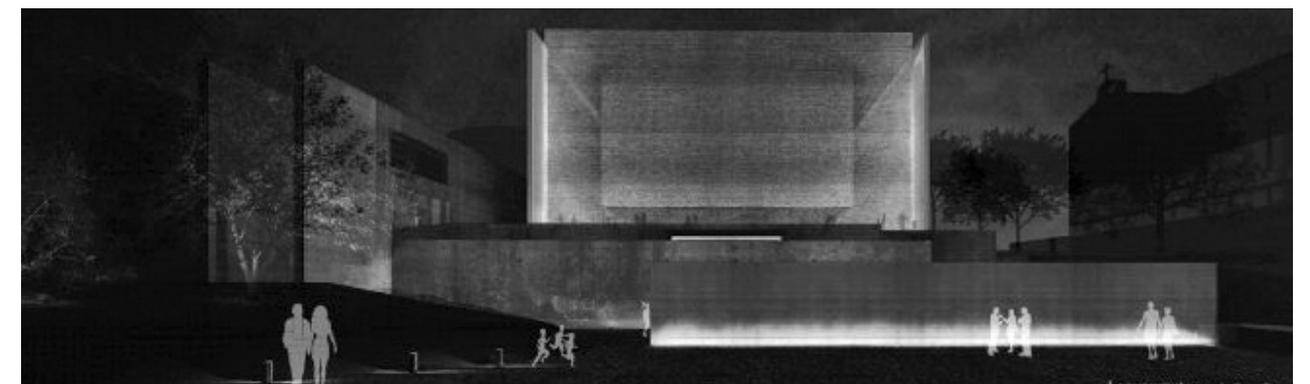
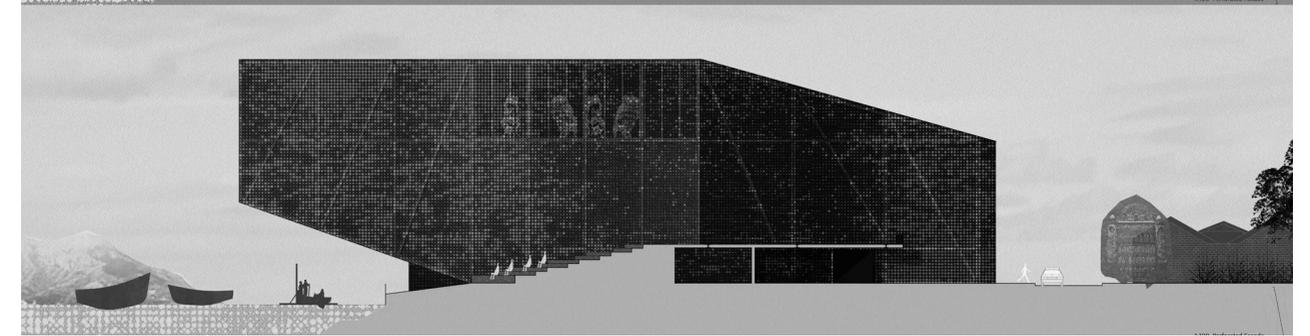
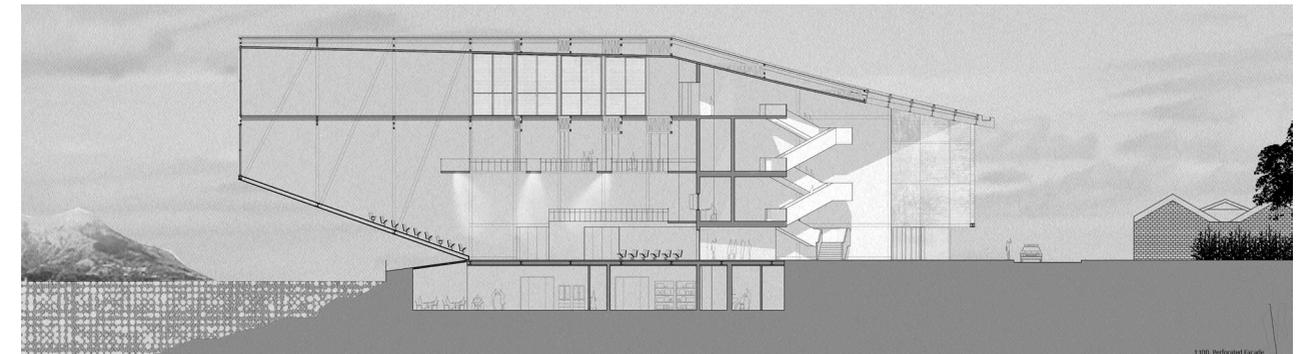
This course outlines the history and theory of modern architecture through significant works of the 20th century. Modern buildings are examined as artifacts of their time, providing a point of reference for understanding their broader contexts. There will be a focus on how individual works relate to important manifestoes, critical writings, parallel developments in the arts, as well as the more general cultural, intellectual and historical circumstances of the time.

ELECTIVE COURSES

Professional Practice and Management

arch 4531 Bernard V. Lim t2

This course connects the arena of the architecture school with the domain of architectural practice. The student is given a working appreciation of the contractual, ethical, economic, legal, and socio-communal issues that relate to the profession. In particular this course introduces the concept of professionalism, emphasising the role of the architect working in relationship with others. Generally, the course prepares the student for a role in the architect's office during the practical experience year.



top: wendy tang; bottom: victor li.

MArch

Programme Director

Peter Ferretto

The Master of Architecture Programme at the School of Architecture offers a series of research based Advanced Design Studios and independent design explorations. These studios and explorations contribute, from different perspectives, towards certain areas of research agenda with a strong focus on emerging issues in Asian cities, which we believe contain elements of spatial intelligence situated in cultures and geographies. This focus is rooted in understanding of a rich human experience in conceiving and designing cities in history, from antiquity to the twenty-first century. It is also concerned with various new aspects of urban realities such as density, urban memory, sustainability, mobility, capital influx, technology, politics and migration.

We are deeply committed to research-based urban interventions that emerge from the strengths of the long-standing and distinguished research activities of studio leaders to be organized in five Design Research Units comprising: Building Technology and Sustainable Design (BTSD); Design Methodology and Practice (DMP); Digital Technology and Computational Design (DTCD); History, Culture and Conservation Design (HCCD); and Urban Design and Landscape Urbanism (UDLU).

MArch I

The programme consists of Advanced Design Studios focusing on issues that are closely connected to the research agendas of studio leaders. The studios aim both to articulate an intellectual position and to demonstrate the impact of that position in design, offering opportunities for research-based architectural exploration while maintaining professional standards appropriate at the Master degree level.

Design Studios

The MArch I Advanced Architectural Design Studios I and II will be offered among five Design Research Units as aforementioned. These studios aim to achieve two principal objectives:

- i) In-depth exploration of architectural issues closely connected to the design research agendas. The studios will emphasize design focus, innovation, research and intellectual content.
- ii) Professional competence, demonstrated in materials submitted by students. These include: programme of appropriate complexity; skills in space planning; awareness of regulatory requirements; detailed knowledge of construction and building technology; awareness of issues such as sustainability and economy.

Required Courses

- arch 5321 Architectural Theory and Criticism
- arch 5421 Advanced Environmental Systems
- arch 5422 Advanced Structures and Construction
- arch 5721 Urban Design and Planning;
- arch 6521 Professional Practice and Management

Electives

Students are encouraged to combine an elective on design issues closely related to their studios, thus, exploring those design issues within two different contexts. With the coupling of electives and studios, there is a greater space for different teaching methods which may require unique modes of research and teaching, such as field surveys and workshops. Electives courses are currently offered in the following topical studies: Design Theory (arch 5131), Computational Design (arch 5231), History, Theory and Criticism (5331), Building Technology (arch 5431), Professional Practice (arch 5531) and Urbanism (arch 5731). In addition, students may take elective courses offered in the MSc Programs of Urban Design.

MArch 2 Thesis Project

Thesis Project is an intensive one-year research and design inquiry to be taken by the Master of Architecture candidate during the second part of the two-year MArch programme. Each student develops an independent thesis project exploring issues relating to one of the five Design Research Units comprising Building Technology and Sustainable Design (BTSD); Design Methodology and Practice (DMP); Digital Technology and Computational Design (DTCD); History, Culture and Conservation Design (HCCD); and Urban Design and Landscape Urbanism (UDLU). The issues addressed in the thesis should fall within the stated research interests of the advising faculty member. The final outcome of the thesis should demonstrate the student's ability to explore an architectural issue independently and in-depth. The resulting design project should be a work that innovatively addresses the findings of the research and synthesizes the knowledge gained into a design of architectural implication and form. The design itself should be comprehensive in scope and detailed in its execution.



DESIGN STUDIO

G1 Zhu Jingxiang t1 Constructing Lightness

With innovation on building system and material use, Japanese architect Shigeru Ban offered high-quality, affordable lightweight buildings across the world. His Pritzker Prize selection in 2014 repositioned what is important in architecture. Lightweight Construction gains attention not only when disaster occurs, but also at a place where sustainable use of resources becomes more important. The primary goal of lightweight construction is to reduce weight, and thus, resource consumption, or sometimes cost and price. This reduction can be achieved through material use (material-based), or complete systems (system-based). Beyond that, even if the term lightweight doesn't imply directly, various questions regarding flexibility and prefabrication can be raised. This studio will explore the multilayered character of this subject matter through case study and intensive design exercises. Students are expected to propose comprehensive building proposals that are both feasible and affordably fascinating, for a place they are familiar with.

REQUIRED COURSES

Advanced Structures and Construction arch 5422 Bruce Lonman t1

This course studies structure, materials and methods of construction, and building envelope systems. In addition, there is a focus on the technology and design of hi-rise architecture. Structural issues concerning the impact of lateral forces on buildings will be examined. Case studies are used to illustrate building system typologies to contribute to an understanding of the relationship between design intention and constructed form. Throughout, the use of integrated and sustainable technical strategies will be examined critically.

G2 Tsou Jin Yeu t2 Sustainable Community for Active-aging and Inclusiveness: An Attempt of Cohousing Concept in Design Solutions

Hong Kong and Mainland China have been long devoted to its economic development and urbanization process. Rising up new towns one by one, Hong Kong endeavors to meet the residential demands of increasing local population and immigrants. However, the limited space has problems to maintain the need of both purely accommodation and social-cultural and environmental variation. Along with the urbanism process, a more diversified background of residents make up a more complex society, living culture, and environmental concerns. How to achieve a social-living balance in future Hong Kong or Mainland China development required the efforts of everyone with multi-dimensional approaches.

This studio is aiming at investigating and designing sustainable silver community in hyper-dense housing context with focuses on the following aspects: active aging, social culture, and environmental concerns.

Advanced Environmental Systems arch 5421 Kelly Chow t2

This course presents strategies for integration of active environmental systems with enclosure, space, and the requirements of human occupation. This will be done through the study of climate and context, air, temperature, water, light, sound, and energy. Each topic will be assessed against problems, principles, possibilities, and potentials - and will focus on the importance of considering active systems as part of an integrated design strategy addressing both FORM and PERFORMANCE throughout the design process.

ELECTIVE COURSES

Lightweight Construction – From a 'Glocal' Point of View arch 5431a Zhu Jingxiang t1

This course will unveil the multilayered issues of lightweight construction through in-depth study on selected cases. Students will study organizational logic by first recognizing critical components and simulating assembly process. The complexity of a case will be clarified through a modeling process, followed by analysis on structure and geometry. Finally, an exercise on database management and building cost inquiry will prepare students for a local application of lightweight building in the future.



from left to right: g1 checked playroom, gansu, china; g2 sustainable community for active-aging and inclusiveness.

Making of: New Rural Prototypes arch 5431b Filipe Afonso t2

Technological progress and environmental concerns have introduced a whole new set of variables into building industry and architecture practice. Architectural discourse evolved to multidisciplinary tool for engagement with communities contributing towards the making of the built environment. This course challenges students to study traditional village structures in Guangdong Province and engage them in the making of a new housing prototype.

Performance-based Simulation in Design and Planning arch 5431c Tsou Jin Yeu t2

The course integrates green building essentials, technical knowledge, assessment criteria and performance-based simulation techniques of green building development and sustainable urban design and planning. Critical thinking and judgment in understanding various major impact categories covered by an international green building rating tool, Leadership in Energy & Environmental Design (LEED) is encouraged.

MArch I

design methodology and practice

DESIGN STUDIO

G5 Peter Ferretto t1
*Transforming Reality -
Searching for a Sense of Knowledge*

This studio focuses on the relationship between place and education within the city. In the city things do not always work as they should; things do not fit perfectly together. Yet as conflicting forces, the worn and threadbare pieces of the city function dynamically, working in reaction to one another. The studio seeks students that, paraphrasing Cedric Price, become architects that construct social wellbeing through the distortion of time, space and intervals. The type of Trade Education Centre you will design could be a space where a city can grow inside the city, a safe place for the fragile and vulnerable or an extraordinary space of production. The site will be on a residual site in Seoul. The objective of the studio is to design 10 (one per student) different forms of Trade Centres, each responding to a specific trade associated with the neighbourhood, i.e.: Fashion, Textiles, Ceramics, Electronics, Furniture, Robotics, Metalwork, Toys, Music, Digital Media, Industrial Design, etc...

ELECTIVE COURSES

Hong Kong Condition
arch 5131a Peter Ferretto t1

This course is based on "forensic" examination of the existing conditions, what we will define as the "here and now". By looking at three broad areas of Hong Kong-Island, Kowloon and New Territories-we will assemble a book of these conditions. The title of the course deliberately, is a ratio, where "CONDITION" is in a direct relationship to HONG KONG. Each student will define three spaces from each location with a series of 3 pages.

G6 Thomas Chung t2
New OrganiCity : New Territories

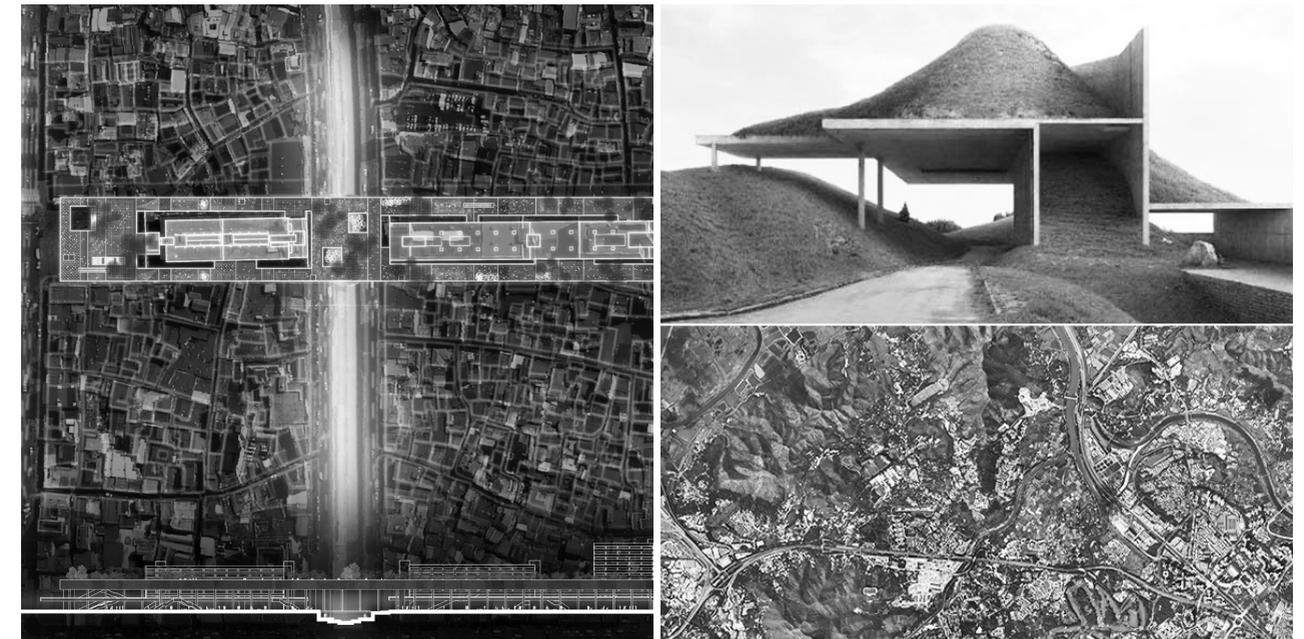
This studio attempts to rethink the notion of OrganiCity in response to the converging fields of urbanism and ecology, framed within the global imperative of sustainability. In particular, we will explore possibilities of an 'organic architecture' for a 21C post-materialist society, one that emphasizes values of inclusivity and self-organization while aspiring to an equitable commons. We will investigate current metabolism of the urban-rural interface to understand the complexity and contradictions between the various life cycles. Our aim is to propose architectural scenarios that integrate and innovate diverse urban-rural, human and natural ecologies. Our focus is to employ architecture as the catalyst for transformative reconfigurations between architecture, infrastructure, active and productive landscapes. Drawing from existing contexts to seek out emerging opportunities, we will imagine an alternative 'ecology of tectonics' - an inventive fusing of material, technique and form that adapts and augments a specific combination of ecological, economic, social and cultural cycles of exchange at these peri-urban zones.

**The Wicked and the Worthy Drawing:
Piranesi's Architectural Poiesis**
arch 5131b Stefano Milani t1

The seminar focuses on the role of drawing in architectural research by investigating Giovanni Battista Piranesi's approach. Commonly cited for his visionary approach to architecture, the specific characteristics of Piranesi's research are frequently ignored and lead to a superficial understanding of his work as a metaphor. The course will challenge this conventional reading by engaging in an in-depth analysis of his drawing to reveal the main components of his research and its systematic character.

Multiple Perspectives: 3 Portfolios
arch 5131c Peter Ferretto t2

The discipline of architecture has always been synonymous with building; from the etymology of the word architecture (the Greek word "arkhitekton" translates as "master-builder") the architect is assumed to be competent in designing/delivering buildings. Seldom are architects associated with writing books, yet through their books architects generate enduring testaments, theoretical treaties that develop and define the evolution of the profession. This course will examine and dissect the work of three 20th century recognized architects, namely: Robert Venturi, Rem Koolhaas and Aldo Rossi.



from left to right: g5 sewon sanga project, seoul; g6 image by filip dujardin

**Professional Practice and Management
Advanced Professional Practice Issues**
arch 5531 Bernard V. Lim (coordinator) t1

This course aims to provide students an exchange platform with leading professionals to explore and understand topical issues and important aspects in professional practice. Students will have the unique opportunity to experience the real-life working environment into which they will merge upon graduation. Students will study select and research on topical issues, in order to deepen their understanding and appreciation of important professional values.

MArch I

DESIGN STUDIO

G9 Filipe Afonso t1 Game Theory Centre

The studio will reflect upon the 'thematic' city and the implications of demanding future scenarios of urban growth of the new Chinese cities, but also analyze the strong historical background of Macau under the influence of Portuguese architecture. The aim of the studio is to develop a research and interpretative centre for Macau urban area dedicated to the theme of Game Theory. The studio will adopt a methodological approach based on computational design thinking as a means to explore possible architectural scenarios and express the mathematical side of game theory itself. Through a highly specific architectural intervention and program, the studio intends to study the dynamics of emergent demographic pressures on a city with a strong historical background and question traditional architectural premises of students' approach to design and practice.

ELECTIVE COURSES

The Man-Machine: Bending Rules arch 5231a Kristof Crolla t1

This seminar investigates how user-friendly performance simulation technology is creating a paradigm shift in the conceptual stages of design, enabling the design and construction of high-performance geometry and expressive architectural form from minimal means. It explores light-weight construction methods for large structural spans using real-time physics simulation tools. It brings together research from light-weight architecture; bending-active shell structures; and design with engines for interactive physics simulation, optimisation and form-finding, combined and tested through prototyping.

digital technology and computational design

G10 Kristof Crolla t2 Force Matter

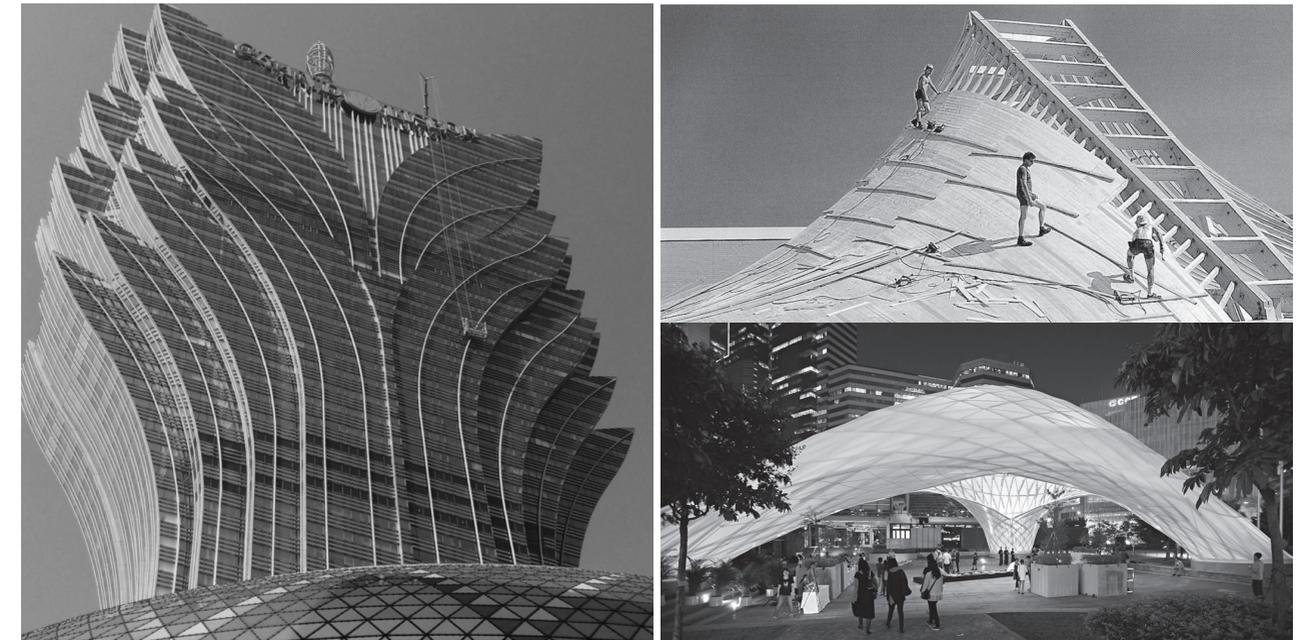
Studio 'Force Matter' uses the design of a multi-storey public event hall in Hong Kong as an opportunity to challenge one of Modernism's most restrictive design paradigms on form and geometry, and replaces it with a more versatile, innovative, and effective contemporary alternative that includes forces and matter. Modernism imposed an essentialist notion in which matter is constrained by idealised geometry; where matter is shapeless and can be regulated by transcendental form. This studio reacts to these self-deluding tendencies by setting up workflows that rely on feedback between material experimentation and notational design, with the final physical manifestation as the only valid end product. We seek to combine the impersonal capacity of matter and material systems with human will and intentionality in a setup where additional determinants are given room to affect the outcome. Iterative design processes are set up that allow for interaction between the numerous factors that define a project.

Digital Design Lab Layout Competition arch 5231b Filipe Afonso t1

The aim of this course is to provoke in students a practical attitude towards design that embraces inventive application of the digital technologies for non-standard construction. Explore and discuss the potential of new advanced fabrication techniques as it relates to construction and architecture practice. In this intensive introduction to Design and Fabrication, you will contribute to the construction of the Digital Lab facilities in CUHK. By entering a design competition you will have the opportunity to build your own ideas.

Lighting Design and Prototyping arch 5231c Adam Fingrut t2

Students should expect to engage in an iterative approach toward the development of an original working prototype. They will learn how to safely source, power, control, fabricate, and assemble their own design. The framework of the course is set as a dialogue between digital simulation and analog prototyping – with each iteration new challenges will be encountered. Students will make extensive use of fabrication facilities and will be exposed to advanced digital rendering techniques and theory for accurately simulating their design ideas.



from left to right: g9 macau, grand lisboa casino; g10 wilkhahn manufacturing pavilions by frei otto (above) and zcb bamboo pavilion by kristof crolla (below).

MARCH I

history, culture and conservation design

DESIGN STUDIO

G13 Stefano Milani t1

The Great Beauty:

The Design of an Aesthetic Clinic and a Fashion House HQ in the Former Slaughterhouse Complex in Rome

Despite stereotypical definition as the 'Eternal City', Rome has undergone many radical transformations throughout the centuries that left numerous evidences of unresolved conflicts in the resulting urban form which became one of the most peculiar characters of the city. The studio will investigate the theme of the residual in the urban transformation of Rome, in particular, focusing on the Testaccio area whose characterising Monte Testaccio (aka Monte dei Cocci or Pottery Hill) in Imperial Rome was used as a landfill, or pottery dump. This unexpected artificial landscape was absorbed into successive urban developments. In the proximity of the Monte dei Cocci is the former municipal slaughterhouse designed by Gioacchino Ersoch at end of the 19th century and abandoned circa 1970. Since then, this huge complex has undergone a slow process of renovation with a large portion left un-programmed and abandoned that will be the specific focus of the design studio.

REQUIRED COURSES

Architectural Theory and Criticism

arch 5321 Patrick Hwang t1

Architectural Theory and Criticism aims to unfold the ideas that lie behind the appearances of buildings. The instructor will deliver ten thematic lectures, each addressing a specific theoretical concept and how it relates to architecture. The course provides a framework for understanding the theoretical trajectories and debates while allowing ideas occurring on the periphery to be further investigated by individual students.

G14 Stan Fung t2

Tourist facilities in Suzhou

Suzhou is the most famous Chinese city associated with gardens. Tourism has grown by about 22% in the last 10 years; visitors from Hong Kong, Macau and Taiwan have doubled in numbers while the number of visitors from other countries has remained stable. The average visitor stays 3-4 days in town, mostly in conventional hotels. The municipal government has invested heavily in a new subway system and re-developed old precincts as tourist areas. However, there is still a big gap between the experiences of Suzhou gardens and of local tourist facilities. There is an opportunity to re-imagine tourist accommodation and tourist facilities more generally. The studio will begin by studying the gardens and streetscape of Suzhou and investigate local constraints as opportunities for formulating design strategies. A young Shanghai architect, Shui Yanfei, one of the most prominent of his generation in China, will be the guest critic of this studio. A field trip to Suzhou is required for site visit.

ELECTIVE COURSES

History of Hong Kong Architecture

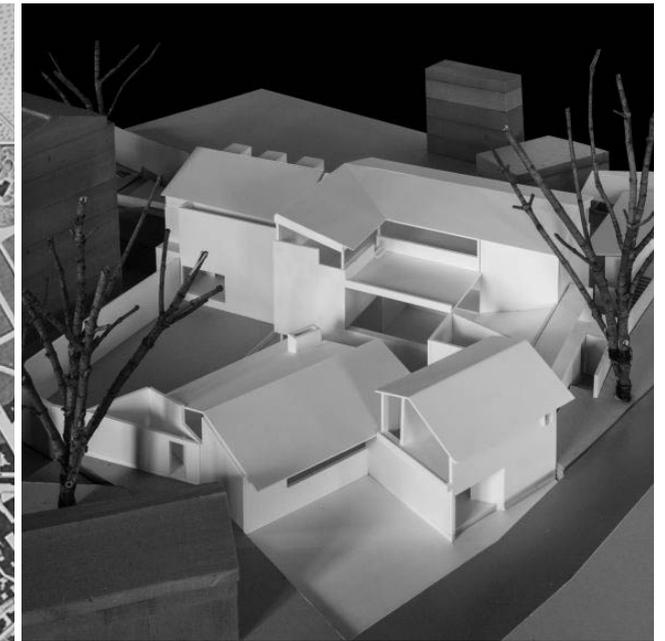
arch 5331a Ho Puay Peng t1

This course looks at the architectural development and planning in Hong Kong through historical periods, examining both traditional Chinese settlements and colonial urban development from the late Qing dynasty to around 1980. Issues such as culture and society, land and building regulations, rural and urban conditions, as well as building techniques will be covered.

Nature in Architecture

arch 5331b Thomas Chung t1

This course explores the theme of nature and its engagement with architecture through ecology and design, and with emphasis on thinking and making. It will consider and critique the development of human habitation on earth, from fearing to harnessing the ferocity of nature, from appreciating the fecundity of its rhythms to using ingenuity to manipulate, extract and eventually concoct and design comprehensive environments, and increasingly artificial, surrogate and virtual worlds.



from left to right: g13 roma-mattatoio e mercato del bestiame; g14 "lost villa" hotel, yucun, mo gan shan, by naturalbuild.

Relationship between "the Process" and "the Quality" of Design

arch 5331c Essy Baniassad t2

It is often assumed that the quality of design draws from sheer creative talent. The course explores the PROCESS OF DESIGN, and the proposition that process of design is an important part of how a designer's skills and ideas influence the quality of the results in terms of capturing the initial ideas as well as their refinement. The proceedings are based on the examination of the process as described by pioneering architects such as Alvar Aalto, and case studies of notable designs.

MArch I

urban design and landscape urbanism

DESIGN STUDIO

G17 Hendrik Tieben t1
The Entrepreneurial City - Re-envisioning To Kwa Wan, Hong Kong

The studio addresses the challenge of how to design for a more successful Arrival City (Saunders, 2012) by offering innovative combinations for affordable living, self-driven economic activities and social networking. Proposals for the 13 Streets and 5 Streets should present the maximum range of alternatives considering careful urban regeneration as well as full-scale redevelopment, allowing us to learn from the comparison of their merits and limitations. Before developing the individual proposals, students will investigate the everyday life of the different ethnic communities in the area (Chase et al, 2008) and re-adapted the given buildings and open spaces for their needs (including their subdivided flats and informal rooftop settlements). The design projects for the 13 Streets and 5 Streets should be developed across different scales from the urban block to the building scale. Projects will be evaluated according to their contribution to this wider urban context and their innovative design of an urban fabric.

REQUIRED COURSE

Urban Design and Planning
arch 5721 Francesco Rossini t2

This course introduces fundamental concepts and ideas of urban design and planning starting from an historical introduction on the evolution of cities with emphasis on modern urbanism. Internationally developed approaches and methods will be presented and tested, investigating the key role that architecture, combined with the interdisciplinary approach of urban design, can play in creating a better and more liveable city.

G18 Doreen Liu t2
Defining Publicness in Infrastructural Architecture - An Integrated Design of Hub Pumping Station, Qianhai, Shenzhen

Through a process of research-based design, the studio is to explore the possibility of making the routine engineering infrastructure into public architecture and places for people to experience in their daily life in the city. The students need to challenge themselves, not only working with hydraulic engineers and knowledge, to set up the necessary engineering components of waterworks; but also, and more importantly, to develop urbanity and public programs out of such process, and integrate them into a design of a series of architecture and spaces that opens to the public, who can learn and be inspired. In conclusion, this is an architectural studio, which starts with a cross-disciplinary research in infrastructure and urbanism, and lands with tectonic solutions. The studio will be conducted jointly in collaboration with Polytechnic University of Turin.

ELECTIVE COURSES

Urban Innovation and Entrepreneurship in Contemporary China
arch 5731a Tat Lam / Jessica Cheung t1

What happens when the mindsets of urbanism clashes with that of tech-based start-ups? While urban lifestyle has changed dramatically with digital service platforms (e.g., Uber) realms of data technology (e.g., Big Data Development) have offered new methodologies for problem identification and resolution. Through opportunistic but critical lenses, this seminar offers deep reading, executable tools and cross-disciplinary explorations of development problems of Urban China.

China Urban Housing
arch 5731b Tsou Jin Yeu t1

Lectures introduce China urban housing development history, social economic background, government policy and regulations, land and economic considerations, China green building guidelines, sustainable urban design and development, implementation systems, case studies, etc. Based on above lectures, students make comparative analyses between China urban housing and international experiences, topics to build up their own in-depth understanding regarding China housing related issues.



from left to right: g17 13 streets, to kwa wan (image ming bao); g18 qianhai, shenzhen

MArch 2

Thesis Project

DESIGN STUDIO

Coordinator

Patrick Hwang

Thesis Project

Arch 6113 / 6114 is a two-term study consisting of research and design supporting an architectural thesis developed by the Master of Architecture student. The Thesis Project aims to demonstrate the student's ability to develop independently an architectural design guided by a thesis concerning an issue of either practical or theoretical origin.

- 19 May thesis briefing session
- 15 Aug submission of thesis proposal
- 09 Sep thesis seminar 1
- 07 Oct review 1 (thesis statement)
- 14 Oct thesis seminar 2
- 04 Nov review 2 (research | preliminary design)
- 11 Nov thesis seminar 3
- 10 Dec review 3 (concept design)
- 22 Dec written thesis submission
- 13 Jan thesis seminar 4
- 03 Feb interim review 4 (schematic design)
- 10 Feb thesis seminar 5
- 03 Mar interim review 5 (design development)
- 31 Mar interim review 6 (focused design)
- 29 Apr final review
- 08 May submission of thesis book

Thesis Advisors Areas of Interest

Filipe Afonso

Modular systems using mathematical unpredictability as a generator factor. Application of advanced computational technologies and natural materials in architecture and design. Generative algorithms and form-optimization strategies for architecture in high-density urban context. Sustainability of industrial modes of production and digital fabrication.

Nelson Chen

(Re) Image of the City: designing innovatively for liveable, sustainable, resilient, healthy cities; Hybrid High-Rise Buildings: reformulating vertical complexes (churches and hospitals, et al) into an adaptive architecture informed by distinctively Hong Kong urban conditions.

Kristof Crolla

Investigations within the realm of tectonics, form and matter, and how computation & digital design and fabrication allow for a systematic, rigorous, and innovative approach to these issues.

Thomas Chung

Urban Metabolism, Urban Habitation, Culture and Urbanism.

Peter Ferretto

Projects centering on the relationship between

architecture and the city, specifically looking at Seoul, South Korea.

Adam Fingrut

Cultural or institutional thesis proposal pertaining to the use of digital technology and computational tools.

Stan Fung

Cultural facilities with cross-programming, atmosphere: highly developed renderings in relation to detailed sections, enrichment by studies of topography and urban context.

Gu Daqing

Building system and method with emphasis on modularity, repetition and variation. Transforming existing building/structure into new use with emphasis on tectonic aspects. Study of space types and the methods of spatial and formal organization. Transformable, flexible, transportable, dismountable, and temporary buildings. Hong Kong public housing.

Simon Hsu

How public or semi-public buildings can serve as an urban intervention to re-energize and re-connect disparate, undernourished physical, cultural and social environments.

Lam Tat

China's informal urbanisms (urban villages and grey marketplaces), rural China development (village community planning, vernacular architectural regeneration), and urban innovation (entrepreneurship, rapid urban prototyping and strategic planning).

Sebastian Law

Public buildings – museum, transportation terminal, entertainment complex, institutional building and commercial development.

Betty Ng

Topics on Art & Culture, Logistics & Storage, Density & Hybrid, privileging approach, design, analysis and work as a collective rather than in isolation with an assumed style siding with either form or function.

Francesco Rossini

Urban Regeneration (Hong Kong), Informal City (Manila), Compact City (Barcelona), Unplanned Spaces.

Hendrik Tieben

Urban heritage, urban regeneration, urban rules, public space and public infrastructure in Hong Kong, Macau and the Pearl River Delta.

Tsou Jin Yeu

Innovative Planning Methodology for Sustainable Built Environment, Green Building Design and Eco-Community Planning and Design in Mainland China, Hong Kong and Taiwan. Urban transportation and mix-used urban development. Alternative urban activities: active aging, gender consideration, urban farming, etc.

Yutaka Yano

History of Japanese architecture and landscape design: visual representations of nature and evolution of perception toward landscape in Heian, Kamakura, Muromachi Period in Kyoto to the modern era. Mobile, lightweight structure and kinetic installation in architectural space.

Yuet Tsang Chi

High density urban housing, landscape urbanism and connectivity, inner city regeneration.

Zhu Jingxiang

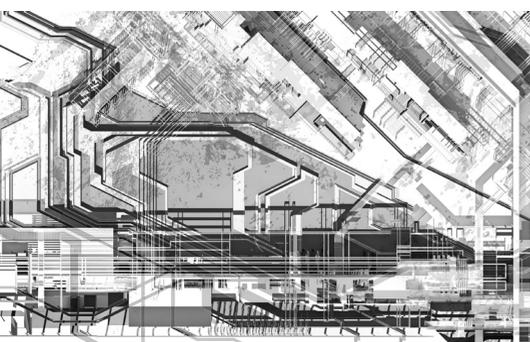
New articulation of structures and space, light materials and building system, cost-effective architecture, space organization strategy, settlement formation and vernacular construction.

REQUIRED COURSE

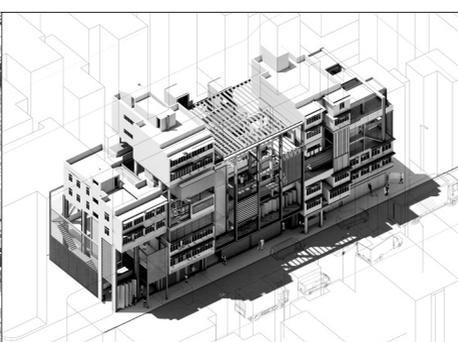
Professional Practice and Management

arch 6521 Bernard V. Lim t1

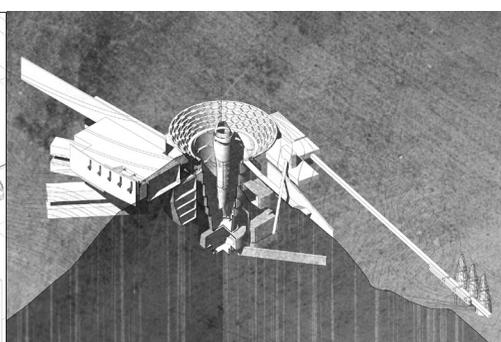
This course is offered to Master of Architecture students who have completed their first degree in architecture and their year-out practical training. The course gives an insight into local development controls, such as the various statutes, regulations, leases, and codes of practice, and the architect's relationship with the controlling authorities. It looks into the architectural office structure, management, and codes of professional conduct, ethics and corruption prevention within the profession. It touches also on the role of the architect, scope of services, terms of agreement, and the architect's relationship with the allied professions. The course covers principles on the building contract and its legal framework. It examines the HKIA/HKIS Standard Form of Building Contract, illustrated with examples and practical experience of how an architect manages the building contract.



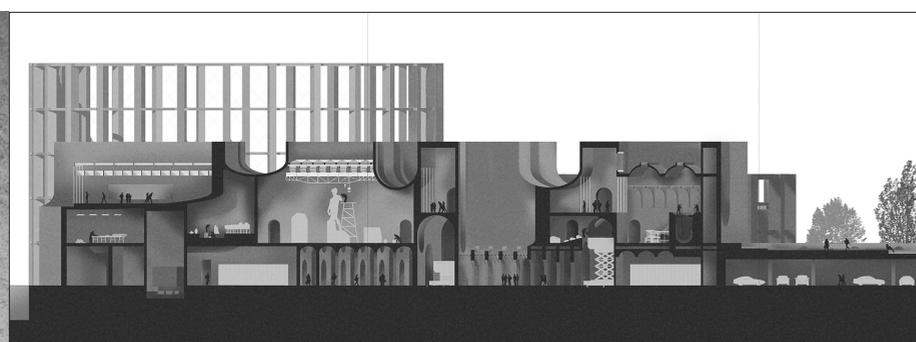
the hydrological league
ma ka ki, vickie



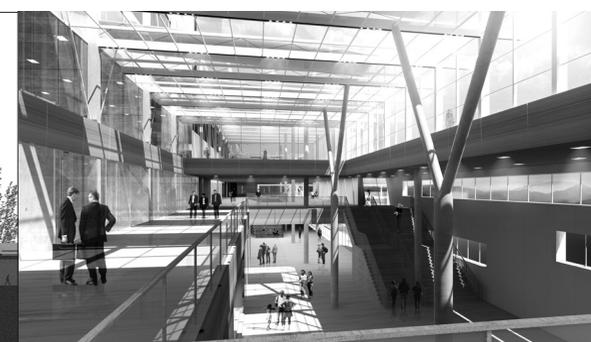
sham shui po center for local crafts
lau chung ming



the contemporary monster
chan pak cheun



the crafts vault
chee king hei thomas



land-water co-habitation
tang jie liang

Design Research Units



BUILDING TECHNOLOGY AND SUSTAINABLE DESIGN (BTSD)

Kelly Chow, Bruce Lonman, Edward Ng, Ren Chao, Tsou Jin Yeu, Zhu Jingxiang.

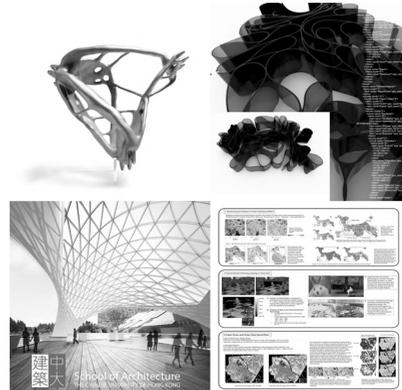
Design and Technology are inseparable in the attainment of Sustainable Design solutions. The BTSD Design Research Unit is based on an understanding that successful architecture is a seamless integration between the two, where comprehensive and innovative solutions can be explored through a broad spectrum of applications, including responses addressing: climate, comfort, construction, material resources, and use. This platform enables and supports investigations in Building Technology and Sustainability at multiple scales in order to develop integrated design strategies that are appropriate to specific design problems, and that support solutions for the longevity of the built environment. Sustainability is a way of thinking, implementing, and designing that informs a user-motivated architecture, placing primary value on our environment.



DESIGN METHODOLOGY AND PRACTICE (DMP)

Nelson Chen, Thomas Chung, Peter Ferretto, Gu Daqing, Patrick Hwang.

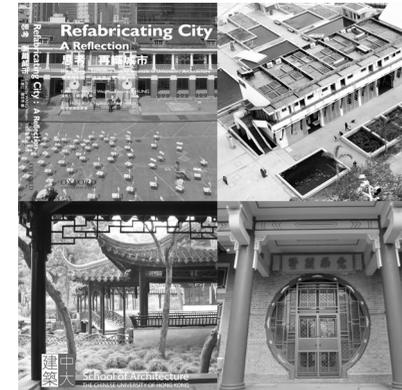
The DMP Design Research Unit is formed by a cluster of experienced educators and practitioners who have achieved design excellence in built and proposed projects. Faculty members within the DMP unit work with current social issues, constructional methods and pedagogical approaches as their design and research agenda. The DMP unit seeks to rebuild the fundamental bridge between praxis and theory by emphasizing "engaged-process" as a fundamental approach in design and research. Studios embrace a range of methodical approaches that begin with an experimental or metaphysical basis and evolve towards a concrete and articulated design proposal, reinforcing the notion of research advancing practice and practice reinvigorating research. Recent topics in the DMP unit range from Re-using Residual Urban Spaces to Memories and Artifacts: the design of an urban archive.



DIGITAL TECHNOLOGY AND COMPUTATIONAL DESIGN (DTCD)

Filipe Afonso, Kristof Crolla, Adam Fingrut, Tsou Jin Yeu

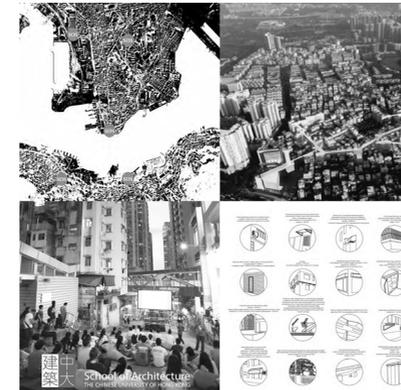
The DTCD Design Research Unit focuses on the impact that computation has on the architectural industry from conceptual design to project implementation and down to digital fabrication. Through a series of elective courses, design studios and thesis projects, students are introduced to the various aspects of computation, including logics, procedural, and algorithmic design methodology, complex geometry, and computational design theory. The unit re-evaluates generative design methodologies with regard to structural form, construction detailing, environmental systems, and cross-disciplinary processes. Concepts bridge diverse fields including design, mathematics, natural systems, and innovative technologies.



HISTORY, CULTURE AND CONSERVATION DESIGN (HCCD)

Thomas Chung, Stan Fung, Ho Puay-Peng

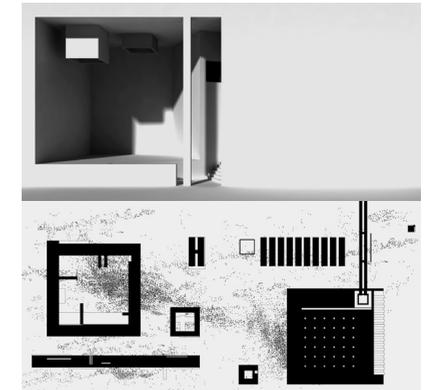
The HCCD Design Research Unit focuses on conservation, architectural history and culture, with specific interests and strengths in the local context of Hong Kong as well as China. China-related issues in conservation, Hong Kong's heritage and the city's architecture history frame research output, ongoing competitive grants, PhD supervision, design studio topics as well as required and elective course content. Besides Hong Kong, recent design studios have worked in cities such as Beijing, Hankou, Chongqing and Dali. Studio discussions are informed by several areas of research in history and theory, and context and fabric are studied at various scales in order to investigate local constraints as opportunities for formulating design strategies. The intention is to allow students to work on real sites and neighborhoods, gaining understanding of localities through documenting built fabrics and engaging communities, thereby understanding the reciprocity between cultural continuity and inevitable contestations that constitutes the urban process.



URBAN DESIGN AND LANDSCAPE URBANISM (UDLU)

Liao Kuei Hsien, Francesco Rossini, Hendrik Tieben

UDLU focuses on sustainable approaches to urban regeneration and new town design under particular consideration of ecological and social economic concerns in the context of Hong Kong, Macau and the Pearl River Delta. The Design Research Unit coordinates activities within the core Architecture programmes as well as the new BSSc in Urban Studies programme and MSc in Urban Design programmes at CUHK aiming to create various synergies. The creation of the two new urban programmes allowed expanding and diversifying the teaching and research capacities with hiring new faculty members with backgrounds in urban economics, ecology and geography (as joint effort of the School of Architecture and the Department of Geography and Resource Management). This gives architecture students the opportunity to enroll in specialized courses related to urban issues and integrate interdisciplinary perspectives into the courses Land and City as well as Urban Design and Planning.



VISITING DESIGN CRITIC (VDC)

Stefano Milani (Delft University of Technology)

Prof. Stefano Milani is an educator and practicing architect. He is presently the Chair of Public Building – Architectural Composition in the Faculty of Architecture at TU Delft. From 2001 to 2005, he worked as a project architect at Nio Architecten, Rotterdam. Since 2004, he has been a partner at the firm UFO Architects. Recently, Prof. Milani has been engaged in research on architectural drawings at the Faculty of Architecture at Delft University of Technology. Assuming drawings as the privileged field of architectural knowledge, the research attempts to enhance the role of architectural drawing within design research and theory. In 2006, he was invited to take part in the 10th Architecture Biennale of Venice. He recently curated the publication, Franco Purini, Drawing Architectures, 2008 and, with Filip Geerts, the Symposium Ideal/Real City.

Image above: Design by Stefano Milani for the Warehouse District of the ideal city of VEMA, project for the X Arch. Venice Biennale, 2006.

Programme Directors

Edward Ng
Ren Chao (Deputy Programme Director)

"We should strive to live healthily and comfortably with a minimum use of the natural resources (environmentally), and without compromising the livelihood and needs of our children (sustainably).

The earth is our responsibility, and we must do two things for our next generations. Firstly, through our responsible actions, leave them a livable world. Secondly, through education, leave them an understanding and a value system so that they could pass them on.

The programmes are a step towards the vision."

Green and sustainable design is a major concern of architects, engineers, government and developers. Climatic responsive architecture not only requires less energy and fewer resources to run, but they also provide a natural and comfortable environment for its occupants.

This Msc programme is designed for architects, engineers, surveyors, builders and professionals of the construction industry.

It is intended that students will:

- Refresh their basic understanding of the subject and learn new knowledge of relevance.
- Widen their horizon seeing the global pictures, issues and solutions offered by others in overseas countries.
- Debate and investigate, together with teachers and specialist of the programmes, issues and possibilities.
- Through design projects, incorporate environmentally friendly and sustainable design in a scientific, logical and practical matter.
- Build a small network of like-minded to advance the agenda.

Students are encouraged to bring live projects into the programme for focused study and discussion. The programme will be based on nine newly-formulated lecture / project courses; many of these courses are taught by eminent international experts. Cutting-edge research and technology will be put into practice through the design projects. Students will learn to conduct an original and focused study through the production of a written dissertation.



Teachers

The programme is unique in that it is taught by an eminent international team of teachers from leading universities and research institutions around the world. Teachers are all internationally renowned scientists and professors in their field of study.

Recent teachers for the programme include:

- Prof Rex Britter, University of Cambridge, UK
- Prof. Raymond Cole, University of British Columbia, CA
- Prof. Dean Hawkes, University of Cambridge and Cardiff University, UK
- Prof. Lutz Katschner, University of Kassel, DE
- Prof. Lam Khee Poh, Carnegie Mellon University, USA
- Prof. Edward Ng, Chinese University of Hong Kong, HK
- Prof Leslie Norford, MIT, USA
- Prof. Adrian Pitts, Sheffield Hallam University, UK
- Prof. Brenda Vale, Victoria University of Wellington, NZ
- Dr. Raymond Yau, Ove Arup & Partners HK Ltd, HK

<http://www.senv.cuhk.edu.hk/>



Graduate Attributes

The Programmes expect our graduates to be aware of the latest issues and knowledge related to sustainable and environmental design. They should have a good understanding of the key areas of environmental and sustainable design; with that understanding, they should have acquired skills allowing them to tackle the passive and integrative design of buildings in an urban setting in particular, and to improve the environmental design of the built environment in general. Our graduates should have IT skills adequate for them to carrying out works related to the subject matter. Through independent studies and the dissertation work, our graduates should acquire life-long, independent and critical self-learning skills. They will know how to independently draw on a wider expertise and knowledge base in their works. Our graduates should have acquired the needed vocabulary of the subject matter and have communication and language skills appropriate for them to be engaged in knowledge exchanges related to the subject matter.

Study Scheme

For both FT and PT students, fundamentals are introduced in the Required Courses. A number of Design Projects allow students to apply the knowledge gained in the courses to design problems. The Dissertation gives students a chance to conduct a focused piece of study into the subject. The Electives further the teaching by introducing topical and relevant issues beyond the fundamentals. Students are required to complete a minimum of 27 units of courses for graduation

(i) Required courses (21 units)
 SENV 7100, SENV 7200, SENV 7300, SENV 7400, SENV 7500, SENV7700

(ii) Elective courses (6 units)
 SENV 7005, SENV7006, SENV7007

Total (27 units)

The topics of MSc courses cover:
 Hong Kong Green Building Design - BEAM Plus
 Bioclimatic Building Design
 Daylighting and Lighting Design
 Urban Climate for Design and Urban Planning
 Building Environmental Performance Assessment
 Total Building Performance
 Topical Study in Environmental and Sustainable Design
 Green and Sustainable Architectural Development



Programme Director

Hendrik Tieben

The M.Sc. in Urban Design programme will focus on the topic: The Entrepreneurial City. This topic has been discussed during the 1980s, at that time focusing on "[...] the use of local governmental powers to try and attract external sources of funding, new direct investments or new employment sources" (D. Harvey, 1989). But recent questions about how to enable migrants a more successful arrival in cities and create more affordable spaces for housing and economic activities led us to the reconsideration of the topic from a new perspective. The Entrepreneurial City topic also allows us to link to the current debate on "Arrival Cities" (D. Saunders, 2011) and contribute the case of Hong Kong as an important reference.

Since its establishment as a "Free Harbour", Hong Kong was a place for people from different cultures to arrive. Originally, many migrants saw the city only as a transitional place, but then decided to stay or return. Despite Hong Kong's difficult topography, lack of natural resources and crowded environment, newcomers were attracted by the comparably higher opportunities to take their lives into their own hands, build up businesses and thrive. However, in recent years, urban renewal, increasing property prices, strict management rules as well as inflexible land use and urban typologies have constrained self-organized economic and innovative initiatives. The aim of the Entrepreneurial City Lab is to develop design and planning approaches which create affordable spaces for working and living, and encourage self-driven economic activities and social networking. Both studios and thesis will explore this topic. The first studio will focus on the regeneration of an existing area, which already has related qualities, while the second will propose the design of new areas. Another key element of the programme is the Urban Design Study Trip providing students with the opportunity to experience different urban contexts and conditions.

**Study Scheme**

Students are required to complete a minimum of 30 units of courses for graduation.

(i) Required courses: 24 units

First Term:

- Introduction to Visualizing Urbanism and Urban Design
- URBD 5710 Urban Design Studio I - 6 units
- URBD 5703 Urban History & Theory - 3 units
- URBD 5731 Urban Processes - 3 units
- URBD 5732 Urban Transport Network - 3 units

Second Term:

- URBD 5720 a&b Urban Design Studio II - 6 units
- URBD 5702 Environmental and Urban Economics - 3 units

Summer Term:

- URBD 5734 International Workshop - 3 units
- URBD 6701 Urban Design Thesis - 6 units

(ii) Elective courses offered by other departments:

- AEPT 5021 Sustainable Eco-City Development - 3 units
- AEPT 5201 Scientific Simulation for Sustainable Urban Planning - 3 units
- AEPT 5104 Urban Remote Sensing - 3 units

*** Enrollment to courses offered by other department is not guaranteed, and it is up to the offering department to decide when the courses are offered.

For more information and updates, visit the programme website:
www.cuhk.edu.hk/urbandesign

DESIGN STUDIO

Urban Design Studio I
 urbd 5710
 Casey Wong
 Teaching Assistant: Chen Yong Ming



Entrepreneurial City Lab I Re-Visioning To Kwa Wan

In the academic year 2016-17, the MSc in Urban Design will focus on the "Entrepreneurial City". In the Chief Executive's policy address in 2016, the government unveiled a raft of initiatives to boost Hong Kong's innovation, technology, and creative sectors. While the city has developed projects and areas such as Science Park, InnoCentre, and Cyberport, these often lack connectivity with the vibrant, contemporary life of the urban areas. In contrast, historically, To Kwa Wan has been a hub of small scale local businesses. Adjacent to the old Kai Tai Airport, and Energising Kowloon East Office's (EKEO) master plan for a second CBD, To Kwa Wan is characterised by unique urban fabrics and morphologies such as the "13 Streets and 5 Streets" area. The district is also known as an "Arrival City" for mainly Indians and Pakistanis who provide the diversity of culture, religion, business and lifestyle into the neighbourhood. Initially attracted by lower rents, To Kwa Wan became the first place where South Asians come to HK, settle down and develop the community around this area.

After an initial research phase, students will focus on the "13 Streets" area to develop a program, a phasing strategy and precise design interventions to transform the area while maintaining the culture, social characters of the district and build up a vibrant, culturally diverse yet integrated, affordable, and flexible space promoting entrepreneurship and sustainable life.

This studio is co-organized with the DRU Urban Design and Landscape Urbanism (UDLU) and the MArch design studio to explore in parallel these topics and sites to tackle issues at both the urban and architectural scale with similar strategic approaches.

REQUIRED COURSES

Urban History & Theory
 urbd 5703 Hendrik Tieben

This course examines the main ideas, histories and theories of the city. Important themes and debates in the history of urban design will be critically explored. In particular, the course investigates how urban forms have emerged and later reinterpreted, adapted and challenged by different social, economic and political contexts.

Environmental & Urban Economics
 urbd 5702 Sylvia He

The course prepares students to develop criteria for value judgments about the complex social, economic and environmental impact of urban design and planning. A range of topics will be discussed including planning policies, migration, and transportation, zoning and livability issues, and potentials for more sustainable, just and livable cities. Students learn about contemporary urban economic research and online sources of economic data.

ACTIVITY

The workshops serve as an introduction to basic visualization methods, skills and styles for professional and creative presentations in the contemporary urban context. Students will have the possibility to discover and experiment with different methods and aesthetics in order to develop their personal visual toolkit for further studies and later professional life.

DESIGN STUDIO

Urban Design Studio II
 urbd 5720
 Nuno Soares



ELECTIVE COURSES

Urban Processes
 urbd 5731 Sujata Govada

This course is organized in close relationship to the Urban Design Studio I and gives students the opportunity to learn about urban processes in Hong Kong and beyond. The course uses a combination of lectures and workshops in which students directly engage with different stakeholders and community members.

Entrepreneurial City Lab 2 Re-scripting Urban Space in Hong Kong and Macau

The second studio continues the research on the Entrepreneurial City of the first studio but is organized as a comparative studio. It uses a common theme and tests it in two different sites in Hong Kong and Macau. The methodology of comparative studies allows students to explore different design approaches and learn from the comparison of two sites which are both similar and different.

Conceived as part of our Entrepreneurial City Lab, the studio will explore innovative strategies for future vibrant districts. Based on the experiences of the first term and continuing research, students will develop innovative proposals for urban expansions of Cotai / Seac Pai Van (Macau) and To Kwa Wan/ Kai Tak (Hong Kong), while contemplating new urban rules and guidelines.

Governments, real estate developers and industrial corporations often promote contemporary developments with profitability and production targets. In this studio, we will take a different approach and focus on the entrepreneurial city as a place that enables and facilitates start-ups, development of innovative business models, flexible to evolve over time, vibrant urban spaces welcoming foreigners and locals, and as cluster for innovation with a positive impact on the immediate surroundings and the overall city. This studio presents a challenge and opportunity to develop top-down design strategies and rules, which enable and facilitate bottom-up initiatives.

THESIS

Urban Design Thesis
 urbd 6701 Nuno Soares

The course covers the general procedures of theoretical inquiry as it relates to urban design. For the dissertation, students will develop a proposal and produce an intellectually rigorous piece in design and writing. The topics will be self-defined but should relate to the studio research and contribute to the overall theme of the Entrepreneurial City Lab.

Urban Transport Networks
 urbd 5732 Daniel Pätzold

The course provides an introduction into history and application of complex urban transportation systems that are globally in use or conception. It provides introduction to transport concepts, planning aspects, technical requirements and ways of implementation. During the course a number of project stakeholders will participate as conveyors of knowledge and as guest reviewers of student projects.

MPhil-PhD

Socio-spatial Dynamics and Repractice of Home: A Spatial Anthropology of Boat-people's Community, Xiamen (1920 to Present)

Chen Yongming / PhD

This research discusses the view of "spatial-anthropology" in built environment studies based on typo-morphological framework, and tries to find out the hidden social logics behind everyday life. Home-oriented practice not only shows boat-people's bottom-up needs, but also closely relates with the socio-political dynamics that shapes the contesting space in places. Moreover, it also combines interdisciplinary methods/ views to discuss the legitimizing forms and meanings during the 100-year span, which will provide a new insight on urban conservation and regeneration.

supervisor: Hendrik Tieben

Study on the Anti-Seismic Rammed-Earth Building in Poor Rural Areas of Southwest China

Chi Xinan / PhD

Rammed-earth building construction is a highly important issue in the contemporary development of China. This study will identify the characteristic issues of rammed-earth building construction in this area and summarize a series of strategies by social, economic, and environmental dimensions of sustainability. Systematic strategies will be verified by building demonstration projects in Southwest China. Finally, a framework of an anti-seismic rammed-earth building construction system for poor rural areas of Southwest China will be established according to relevant theory and practice.

*supervisor: Edward Ng
co-supervisor: Ren Chao*

A Critical History of the Concept of Authenticity within the Professionalization of Chinese Architectural Conservation

Du Ruijie / PhD

Authenticity is regarded as the essential qualifying factor concerning values attributed to cultural heritage. The understanding of authenticity has evolved through time and been challenged in different heritage forms and cultural contexts. While authenticity is still regarded as a controversial concept in the international discourse, in China its understanding and implementation are crucial to the emerging theoretical and practical problems. This research will investigate the evolving notion of authenticity within the professionalization of Chinese architectural conservation and the factors affecting the understanding and implementation of this concept.

supervisor: Ho Puay-Peng

Green Space Planning and Design Strategies for Improving Elderly Health in High-Density Cities: A Case Study in Hong Kong

Gong Fangying / PhD

Hong Kong is an ageing society. According to WHO, 22% of its residents will be 65+ years old by 2030. Urban green space (UGS) planning and design strategies are important for improving elderly health. In this study, a quantitative assessment of the benefits of UGS on elderly health in Hong Kong will be implemented. Moreover, a synthetic metric will be developed to assess and improve the planning and design of UGS for promoting elderly health for building a healthy city.

supervisor: Edward Ng

The Polytechnic Model in China's Architectural Education - Its Introduction, Evolution and Contemporary Challenges

Han Ruyi / PhD

The study is to trace the historical development and summarize the characteristics of the Polytechnic Model in Chinese architectural education. It will be conducted in three main stages. Firstly, to examine the origins and early development of the Polytechnic Model before its introduction to China. Secondly, to explore the importation, evolution and decline of the Polytechnic Model in Chinese architectural education. Finally, to conclude with a critical reflection on the Polytechnic Model and the contemporary challenges faced by Chinese architectural education.

supervisor: Gu Daqing

On Heritage Production: The interplay of Objectivity and Subjectivity in heritage valorization

Hui Cheung Man / PhD

This research examines the heritage valorization process in the rapidly modernized and urbanized Hong Kong, exploring how the interplay of objectivity and subjectivity amongst the authority, private sectors and community have influenced the power dynamics in stipulating the threshold of significance in heritage valorization.

supervisor: Ho Puay Peng

Profit, Virtue and Megaform: Hongkong Land's Building Activities in Central District, 1889-1983

Mo Kar Him / PhD

D.K. Newbigging, Chairman of Hongkong Land, stated "the company has been an integral part of the development of Central District..." Despite its strong influence on the Central Development, the long-lived, intertwining history has been inadequately examined in academia. This study attempts to delineate how Hongkong Land's investment policy and its corporate culture changed the face of Central over the years, with buildings built in proximity and interlinked by bridges. Together, they exhibit an urban landscape coined by Kenneth Frampton - the Megaform.

supervisor: Ho Puay-Peng

Predicting Outdoor Thermal Comfort in High-Density Urban Environment Based on View Factor Method in Radiative Energy Transfer

Lai Kwok Lung / MPhil

The study investigates the feasibilities, from radiative heat transfer of view, of preserving, improving and creating a better micro-climate around buildings for the sake of pedestrians. Based on the findings, strategic sustainable urban planning would be suggested. The holistic planning of the built environment, both indoor and outdoor, should be taken into consideration so as to allow pedestrians to enjoy and live healthier lives in the outdoor urban environment.

supervisor: Edward Ng

Sustainable Community Development and Built Environment Enhancement in Remote Rural Yunnan

Li Kehan / PhD

Current remote rural development in China emphasizes the apparent improvement of physical conditions but ignores the quality of life or the spirit of locality. This study discusses how sustainability and the bottom-up development models can be localised as alternative approaches in facilitating sustainable community development in remote rural Yunnan, and furthermore explores the role of the built environment based on this proposition, evaluated by means of on-site practical experience in community service.

*supervisor: Edward Ng
co-supervisor: Ren Chao*

Mid-twentieth-century Houses by Richard Neutra

Lyu Ruijie / PhD

My research is focused on the relationship between program and structure in Neutra's houses during the 1940s and 1950s. It would study how the nuances of structures and boundaries allows an opportunity to distinguish Neutra's houses and those by his contemporaries.

supervisor: Stanislaus Fung

Experimental Research and Engineering Practice on Bamboo Bridge in China

Shao Changzhuan / PhD

With financial resources constraints in China, local governments often fail to construct footbridges that are urgently needed. A solution for a low-cost and easily adaptable method to solve river-crossing problems would have great social significance. Utilizing bamboo to build bridges is a promising solution because of its availability and affordability in China. This research aims at conducting research on bamboo bridge structure typology.

*supervisor: Edward Ng
co-supervisor: Ren Chao*

Workflow of Contemporary Digital Design, Fabrication and Assembly Industry in Chinese Architecture Environment

Wang Sining / PhD

Contemporary architectural practicing involves multi-disciplinary cooperation in which digital paradigm shift is streamlining workflows among parties. Applications of this ideological coherence have emerged in developed countries while disciplinary isolation is impeding the evolvement of architectural philosophies in China. The research aims to construct a hypothetical workflow mode, which involves internal algorithm thinking and information transmission, and external collaborations among actors within the social information model, through case studying and analyzing peculiarities of current workflows of Chinese practitioners and industry capabilities.

*supervisor: Tsou Jin-yeu
co-supervisor: Kristof Crolla*

The Transplantation of a Design Pedagogy: Nanjing-Zurich Exchange between SoA SEU and D-Arch ETH-Zurich, 1984-2011

Wu Jiawei / PhD

This research is an in-depth study on a particular line of development of design pedagogy over the past thirty years. The chosen case, the Nanjing-Zurich Exchange (NZE) program between Department of Architecture of ETH-Zurich (ETH-Z) and the School of Architecture of Southeast University (SEU) in Nanjing, is the most important and influential pedagogy transplantation in contemporary China. The study makes a comparison between the source and the flows. The goal is to uncover change or deviation of ideas and disciplines in the process of the pedagogical transplantation.

supervisor: Gu Daqing

Historical Research on Narrative Based Design Pedagogy

Xu Liang / PhD

The 1970s witnessed the application of *narrative* in architecture design education, which was driven by viewing architecture as language. By doing so, it formed a unique teaching pedagogy that incorporated discussions of a story, an event and a fragment. This study reviews the formation and evolution of the narrative based pedagogy, and investigates its influences in China.

supervisor: Gu Daqing

The Western Origins of the Composition Pedagogy and its Evolution in China's Architectural Education

Zhang Yiwei / PhD

This thesis focuses on the Three Basic Divisions of Composition of the preliminary course in China's architectural schools. It gives an in-depth investigation of its western origins, and its transplantation and evolution in the Chinese context since the late 1970s. Amongst the historical materials, formal exercises applied in design teaching will be further studied and related to the knowledge system established by composition formal theory. The aim is to uncover the characteristics of Composition pedagogy in China, and to give a historical reflection of it.

supervisor: Gu Daqing

Modernizing Log Construction System: A Study on Building Technology Advancement and Relevant Design Strategy

Zhao Yan / PhD

Systematic research on log construction advancement resulting from technological improvement is not easily found in the architectural field. Therefore, the author chooses the contemporary log building system as the focus of this research. A pilot research study collected contemporary log construction cases and made an analysis on selective cases, in which traditional knowledge is well integrated with modern technologies. Primarily through literature research supplemented by physical and digital modeling, excellent design methods are uncovered and classified.

supervisor: Zhu Jingxiang

Incoming Research Postgraduate Students 2016-17

Chan Ching Kan / PhD Supervisor: Ho Peng-peng
BA (Hons) HKU, MArch CUHK

Geng Yan / PhD Supervisor: Hendrik Tieben
BEng NFU Nanjing, MArch UCL

Pedram Ghelichi / PhD Supervisor: Zhu Jingxiang
BSc, MArch Iran UST

Huangfu Wenzhi / PhD Supervisor: Hendrik Tieben
Co-supervisor: Thomas Chung
BEng, CAA, MSc Columbia

Kuang Da / PhD Supervisor: Hendrik Tieben
Co-supervisor: Liao Kuei-hsien
BA NFU Nanjing, MA AA, MSc UCL

Elisabeth Lee / PhD Supervisor: Edward Ng
BA, PgDip Westminster

Li Xiang / PhD Supervisor: Tsou Jin-yeu
MSc CUHK

Mu Xiaodong / MPhil Supervisor: Stanislaus Fung
BA Hainan, MLA Tsinghua

Sun Yuxuan / PhD Supervisor: Zhu Jingxiang
BArch Harbin IT, MArch Michigan

Wang Ran / PhD Supervisor: Ren Chao
BSSc NAU Nanjing, MSc CUHK

Xiang Luyao / PhD Supervisor: Edward Ng
BSSc ZJUT, MArch SCUT

Zou Danxi / PhD Supervisor: Tsou Jin-yeu
BArch Tsinghua, MLAUD Harvard



Faculty

Full Time Faculty

Nelson Chen *Professor of Practice in Architecture, Director, School of Architecture*
 Filipe Afonso *Assistant Professor*
 Kelly Chow *Professional Consultant*
 Thomas Chung *Associate Professor*
 Kristof Crolla *Assistant Professor*
 Peter Ferretto *Assistant Professor*
 Adam Fingrut *Assistant Professor*
 Stanislaus Fung *Associate Professor*
 Gu Daqing *Professor*
 Ho Puay Peng *Professor*
 Patrick Hwang *Professional Consultant*
 Liao Kuei Hsien *Assistant Professor*
 Bruce Lonman *Professional Consultant*
 Edward Ng *Yao Ling Sun Professor of Architecture*
 Ren Chao *Assistant Professor*
 Francesco Rossini *Assistant Professor*
 Hendrik Tieben *Associate Professor*
 Tsou Jin Yeu *Professor*
 Zhu Jingxiang *Associate Professor*

Emeritus and Honorary Professors

Tunney Lee *Emeritus Professor*
 Peter Rowe *Honorary Professor*
 Rocco Yim *Honorary Professor*

Part-Time Faculty

Essy Baniassad *Adjunct Professor*
 Christopher Bene *Adjunct Associate Professor*
 Jessica Cheung *Lecturer (Part-Time)*
 Raymond Fung *Adjunct Professor*
 Sujata Govada *Adjunct Associate Professor*
 Han Man *Lecturer (Part-Time)*
 Simon Hsu *Adjunct Assistant Professor*
 Lam Tat *Adjunct Assistant Professor*
 Sebastian Law *Adjunct Professor*
 Sarah Lee *Adjunct Assistant Professor*
 Bernard V. Lim *Adjunct Professor*
 Doreen Liu *Adjunct Associate Professor*
 Maggie Ma *Adjunct Assistant Professor*
 Sarah Mui *Adjunct Assistant Professor*
 Betty Ng *Adjunct Assistant Professor*
 Daniel Pätzold *Adjunct Associate Professor*
 Nuno Soares *Adjunct Assistant Professor*
 Ida Sze *Adjunct Assistant Professor*
 Casey Wang *Adjunct Assistant Professor*
 Wu Rui *Adjunct Assistant Professor*
 Caroline Wüthrich *Adjunct Assistant Professor*
 Yutaka Yano *Adjunct Assistant Professor*
 Alfred Yeung *Adjunct Associate Professor*
 Wilson Yik *Adjunct Assistant Professor*
 Yuet Tsang-Chi *Adjunct Associate Professor*
 Zhu Haohao *Adjunct Assistant Professor*



External Reviewers

name	position	company / institution
Brian Anderson	Partner	Purcell
Michele Bonino	Associate Professor	Polytechnic U. of Turin
Kenneth Chau	Managing Director	CYS Associates
Sean Chiao	President	AECOM
Donald Choi	Managing Director	Nan Fung Development
Karen Fairbanks	Professor / Chair	Barnard College
Raymond Fung	Professor	CUHK
Belinda Ho	Director	MUSA Ltd.
Christopher Law	Founding Director	The Oval Partnership
Clover Lee	Director	plusClovers
Joan Leung	Director	Lotus Architects Ltd.
Liu Kecheng	Professor / Dean	Xi'an University of Architecture & Technology
Lyndon Neri	Founding Partner	Neri & Hu
Michael Ng	Director	Foster + Partners
Joel Sanders	Adjunct Professor	Yale University
James Saywell	Editor	Hinge Magazine
Michael Tawa	Professor	U. Sydney
David Tseng	Professor / Dean	National Chiao Tung U.
Barry Will	Executive Director	WCWP International
Humphrey Wong	Director	Meta4 Design Forum
Zhao Yang	Founder	Zhaoyang Architects



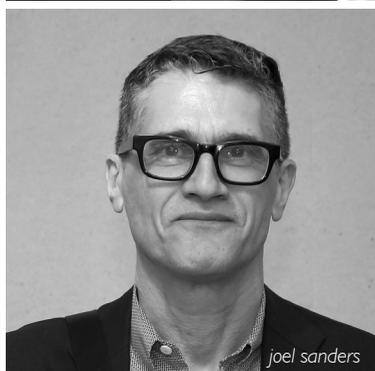
barry will



belinda ho



james saywell



joel sanders



clover lee



humphrey wong & joan leung



christopher law



brian anderson

Lectures 2015-16

speaker	date
Roger Riewe <i>Recent Preoccupations</i>	15.10
Bryant Lu <i>Sense Of Community - Sense Of Responsibility</i>	22.10
Rocco Yim <i>Identity</i>	29.10
Keith Griffiths <i>The Forum - Conception To Realization</i>	02.11
Edward Leung <i>Cornix Home Base - Adaptive Re-use In Hong Kong</i>	02.11
Alberto Moletto Umberto Bonomo <i>Discourse of Contemporary Chilean Architecture</i>	21.01
Wong Mun Summ <i>Garden City, Mega City-Strategies for the 21st Century Sustainable City</i>	21.01
Kristof Crolla <i>Bending Bamboo Rules</i>	01.02
Thom Mayne <i>Negotiating a Private Agenda</i>	18.02
Iain Borden <i>Skateboarding and the City: From Margin to Centre</i>	25.02
Huang Sheng-Yuan <i>Living In Place</i>	17.03
Li Xiaodong <i>Towards A Reflexive Regionalism</i>	24.03
Sir Terry Farrell <i>Urban Dialogue: The City As A Tangled Bank</i>	07.04



sir terry farrell



keith griffiths



wong mun summ



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roger riewe



bryant lu

Events 2015-16

event	date
Kinoshita Lecture	
Thom Mayne Negotiating a Private Agenda	18.02.2016
Conferences	
2015 International Architecture Conference - Background City	17-18.12.2016
Hong Kong Graduate Conference in Architectural Research	01-02.04.2016
Symposium on Teaching Architectural History and Theory	16-17.06.2016
Seminars	
Visit of Peter Cook	04-08.12.2015
Cornerstone Training Programme Wayne H. Perry	27-29.01.2016
Exhibitions	
CUAAA Award Exhibition Chan Pak Chuen	18-25.01.2016
Condition / Hong Kong Peter Ferretto	15-25.06.2016

event	date
Field Trips	
Kaiping & Guangzhou Shenzhen & Dongguan Graz Guangzhou Guangzhou Fujian Shenzhen Taiwan	04-08.12.2015 26.02.2015 15-22.12.2015 25-27. 09. 2015 26.09.2015 9-11.10.2015 29.02.2016 05-08.01.2016 & 26-29.05.2016 23.01.2016 23.05-01.06.2016 02-08.01.2016 08.01.2016 22.06-01.07.2016 27.06-02.07.2016 05-12.06.2016
MArch Collaborative Studios	
Guangzhou University (Ling Cai) Collaboration with Peter Ferretto	22.06-01.07.2016
National Chiao Tung U, Taiwan Collaboration with Patrick Hwang	05-08.01.2016 & 26-29.05.2016
ETH Zurich (Doreen Liu) Collaboration with Kristof Crolla	23-31.05.2016
TU Graz (Roger Riewe) Collaboration with Wallace Chang	15-22.12.2015



Summer Activities 2016

Learning from Barcelona II

Francesco Rossini
Barcelona 1 - 6 June

This course offered the opportunity to explore Barcelona as a case study for successful approaches in urban design. With the return to democratic rule at the end of the 1970s, citizens of Barcelona took back ownership of the city's public realm and with a young generation of designers converted the city's open spaces into public living rooms. The transformation process was boosted by the prudent planning for the 1992 Olympics followed by a series of further successful urban regeneration projects. The workshop included field trips and design works in collaboration with teachers and students from ETSAB at UPC Barcelona. The workshop focused on five urban design issues in Barcelona, relevance for other compact coastal cities, including Hong Kong:

- 1) Connecting the city and the waterfront;
- 2) Designing streets as public spaces;
- 3) Improving Old Town through public space;
- 4) Regenerating the system of streets and courtyards of the Eixample;
- 5) Revitalizing the 22@ district.

Reactivation of Chinese Ethnic Minority Social Spaces: The Hunan Dong Minority Village

Peter Ferretto
Hunan 22 June - 01 July

The Workshop's premise was that architecture can serve as a vehicle for collective expression and empowerment. By working closely with local communities, understanding their social customs as well as their traditional craftsmanship, a new civic approach towards architecture can be achieved, awakening the awareness of social, sustainable and economic issues facing populations in rural Chinese minority villages and beyond.

The idea is based on taking the status quo as a point of departure, a point from where things can be adapted and altered to generate new meanings for the Gaubu village. The students participating in this workshop worked in groups to analyse various aspects of the village: social space, waste, water, abandoned dwelling, etc., before making a prototype intervention that highlighted this condition to the villagers.

Fabrication Festival Pavilion Design 2016

Adam Fingrut
U. of Westminster, London 27 June - 2 July

The School of Architecture was delighted to announce its participation in FAB FEST 2016 - The International Fabrication Festival hosted by the University of Westminster in London, from 27 June to 2 July 2016. The festival invited architecture and design students from across the globe to participate by designing pavilions made from cardboard. CUHK students led by Prof. Adam Fingrut developed their concepts in Hong Kong as part of a summer elective course. Two teams of five students proceeded to London, where they fabricated and successfully assembled their pavilion designs. The trip was a great opportunity for our students to gain experience working alongside counterparts from different universities, to collaborate on design projects, and to experience great architecture in the City of London. The CUHK team won the People's Choice Award for Best Festival Pavilion Design.

Architecture Explorer Programme

Patrick Hwang
School of Architecture, CUHK 18 - 30 July

This summer programme enables secondary school students to explore both the joy and challenge of studying architecture and provides an opportunity for students to unleash their creative potential through art, design and architecture.

During the two-week summer programme, students are exposed to architecture by participating in lectures and exploring the fun of design-making by transforming a concept into three dimensional spaces through both hand tools and computing software used by architects. Students also experience architecture through guided field trips to significant local buildings and professional architectural offices. Periodic "design reviews" are scheduled where students present their work in front of others. These provide an opportunity for feedback and advice from the studio professor and design professionals.

NSBAE Teacher's Design Workshop 2016

Gu Daqing
School of Architecture, CUHK 18 - 31 July

The workshop, co-organized by the National Supervision Board of Architectural Education (China) and the School of Architecture, CUHK, was held from 18 to 31 July, 2016, in the School of Architecture. During this 2-week period, 64 young teachers and architects from 29 mainland universities and design firms engaged in an intensive design exploration on space and tectonics supported by a series of lectures on design theory and method, design teaching and pedagogy, and architectural education. The design results from the workshop were presented in the final exhibition together with a symposium where past participants shared their experiences in pedagogic research and teaching experimentation. The workshop activities also included tours on Hong Kong modern and contemporary architecture.

CUHK Summer Institute 2016

Bruce Lonnman
School of Architecture, CUHK 19 - 26 July

Structure in Architecture is a module that introduces secondary school students to structural concepts, processes and aesthetics in architecture. Lectures present an overview of how structure and architecture are mutually dependent. In-class activities use model demonstrations and graphic assignments to better understand how structures work and how they are designed. A field trip visits two works of architecture in Hong Kong by Pritzker Prize recipients, Zaha Hadid and Norman Foster, contrasting style and form in contemporary buildings.



learning from barcelona ii



hunan summer program



fabrication festival 2016



architecture explorer program



nsbae teacher's design workshop



cuhk summer institute

Student Exchanges 2016-17

Peter Ferretto

Exchange Programme

Partner University

Graz University of Technology

National University of Singapore*

Polytechnic University of Milan

University of Cambridge

University of Liechtenstein

University of Applied Sciences, Stuttgart

University of Westminster*

University-wide Exchange

Asia University

Erasmus University Rotterdam

ETH Zurich

Ewha Womans University

KTH Royal Institute of Technology

Leibniz Universität Hannover

McGill University

Pontifical Catholic University of Chile

University of Toronto

Outgoing

Lam Long Tat, Ted

Kwok Chun Tung, Angelica

TBC

Tan Song

Yim Yu Ching, Ben

Wong Yim Ling, Tiffany

--

Lau Ho Chuen, Maxwell

Ma Ting Kwong, Marcus

TBC

--

--

--

Li Alex Kelvin

--

Leung Kai Shu

Zhao Hongsheng

Ma Chor Yu

--

--

Incoming

Paul Plankensteiner

Michael Sattler

TBC

Giovanni Andrea Romei

--

Cheung Dip Wan

Melanie Alexandra Stelzl

Nathalie Wolff

Dennis Pristl

TBC

Mami Araki

Anna Leunissen

Jochen Rieger

--

Johan Emanuel Backholm

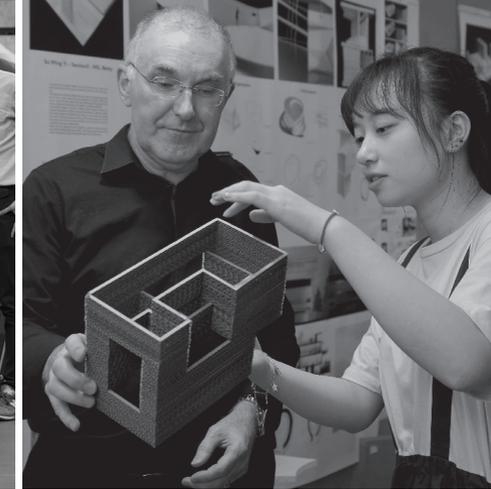
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Ketheesakumaran Navaratnam

Federico Vargas



* New student exchange programme commencing AY 2016-17, Term 2.

Incoming and outgoing students to be confirmed in Term 1.

Awards and Scholarships 2015-16

Gu Daqing

Awards

AIA Hong Kong Scholastic Award

Clifford Wong Prize in Housing Design

CUAAA Award

Dean's List

Global Internship Programme

HKIA Student Medal

Honours at Entrance and Scholarships

RIBA President's Medal Award Nominees
Silver Medal

Bronze Medal

Society of Construction Law HK Prize
First Prize
First Runner up

A&D Trophy Awards 2015
Certificate of Excellence

Formica Scholarship

IS ARCH Awards for Architecture Students
Special Mention

Recipients

Lee Kai, Farzad

Yiu Chi Ho, Kenny

Ho Chun Sing, Jason

Chee King Hei, Thomas
Liu Chun Ting, Larry
Ma Ka Ki, Vickie
Yau Chun Yin, Luke
Yam Ka Kit
Tang Wan Ting, Wendy
Chung Wing Yan, Chloe
Zhang Yu Tong
Tai Cheuk Wai Gervas
Lee Hiu Yeung
Hui Sin Yee
Cheung Yan Ling

Ma Shiyu, Sherry
Tsang Siu Fung, Simon

Ma Ka Ki, Vickie

Chiang Ethan

Chee King Hei, Thomas
Tsui Sze Man, Eunice
Tam Dik Yeung, Derek
Yam Ka Kit

Chan Wing Hang, Melody
Chow Hang Yee, Theresa

LAM, Long Tat
WONG, Yee Man Ophenia
CHAN An Yu, Andrea

Fung Ching Wai, Wilson

Chen Yongming

Year

BSSc Y4

BSSc Y4

MArch 1

MArch 2

MArch 2

MArch 2

BSSc Y4

BSSc Y4

BSSc Y4

BSSc Y3

BSSc Y1

BSSc Y1

BSSc Y1

BSSc Y1

BSSc Y3

BSSc Y3

MArch 2

BSSc Y2

BSSc Y4

BSSc Y4

BSSc Y4

BSSc Y4

BSSc Y4

BSSc Y4

MArch 2

MArch 2

MArch 2

MArch 2

MArch 1

BSSc Y4

BSSc Y4

BSSc Y3

BSSc Y3

BSSc Y3

RPg



Awards

School of Architecture Best Design Studio Award:

U1 Design Studio
U2 Design Studio

U3 Design Studio
U4 Design Studio
U5 Design Studio
U6 Design Studio

M1 Design Studio (Term 1)
M1 Design Studio (Term 2)

M2 Thesis Project
M2 Thesis Project (Commendation)

U5 Studio Awards:
Best Drawing

Best Model

U6 Studio Awards:
Best Drawing

Best Model

Scholarships

Cornerstone International Training Programme

L&O Travel Scholarship for Design Innovation

Professor Raymond Fung Scholarship

Talent Development Scholarship

Wharf ArchDesign Resource Trust,
Architectural Design Internship

Wong Tung & Partners Scholarship

Recipients

Lam Ho Yu, Jacky
Chan Tsz Sun, Ovan
So Wing Yi, Zoe
Carina Stoeveken
Ho Wai Sum, Michelle
Tam Dik Yeung, Derek
Yam Ka Kit
Chan Cho Man, Terrence
Ip Yi Lok, Ivy
Lam Kin Kwan, Kenji
Ma Vickie Ka Ki
Tang Jieliang
Tsui Sze Man, Eunice

Chan An Yu, Andrea
Cheung Man Kit, Solomon
Leung Ying, Jenn
Tang Wan Ting, Wendy

Wong, Long Hin Nichol
Leung Ying, Jenn
Yiu Chi Ho, Kenny
Tang Wan Ting, Wendy

Recipients

Ma Shiyu, Sherry
Tsang Siu Fung, Simon

Chan Chun Yu, Eric

Law Yuk Sin
Law Yin

Ma Ka Ki, Vickie

Chan Pak Chuen
Tsui Sin Ying, Fiona

Liu Chun Ting, Larry

Year

BSSc Y2
BSSc Y2
BSSc Y2
BSSc Y3
BSSc Y3
BSSc Y4
BSSc Y4
MArch 1
MArch 1
MArch 1
MArch 2
MArch 2
MArch 2

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Year

BSSc Y3
BSSc Y3

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MArch 1

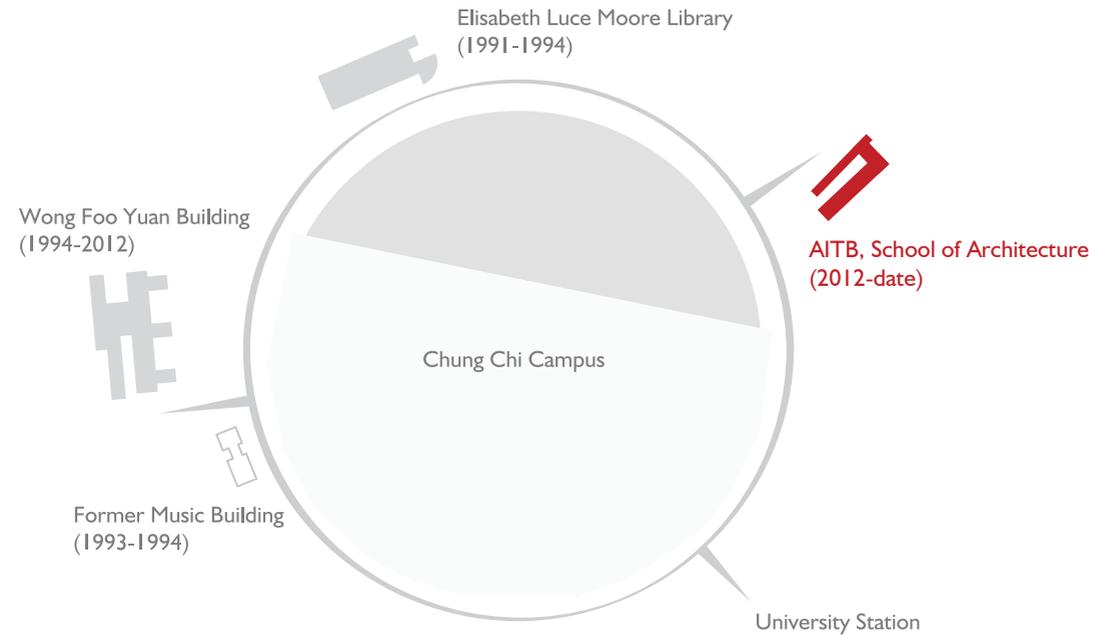
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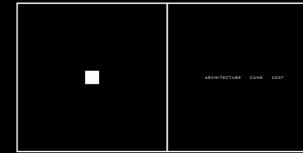
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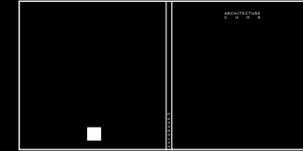
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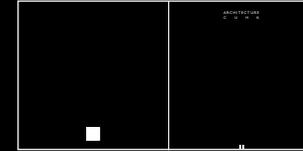
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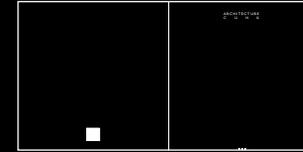
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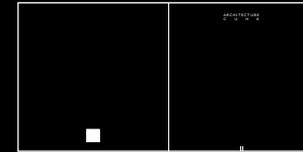
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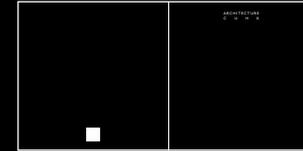
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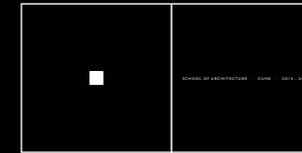
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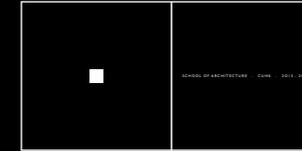
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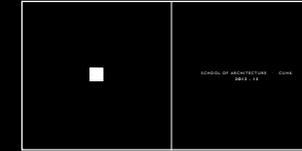
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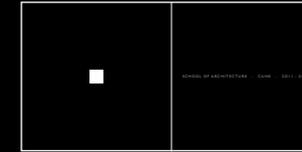
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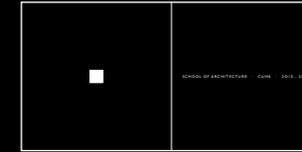
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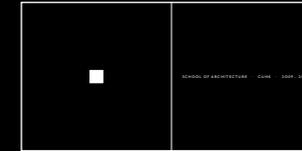
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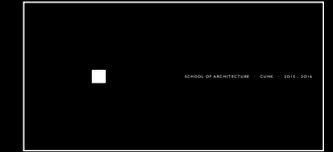
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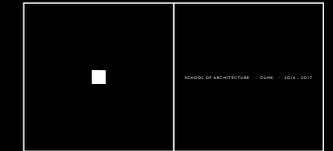
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 thomas chung | andrew yu



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 bruce lonnman | andrew yu & xu liang



blackbook 2016-17 198 x 198mm 68 pages
 bruce lonnman | xu liang

