

REGULATIONS FOR THE DEGREE OF MASTER OF ARCHITECTURE (MArch)

(See also General Regulations and Regulations for Taught Postgraduate Curricula)

(These regulations are applicable to candidates admitted in the 2020-21 academic year and thereafter)

Any publication based on work approved for a higher degree should contain a reference to the effect that the work was submitted to the University of Hong Kong for the award of the degree.

MAR1 Admission requirements

To be eligible for admission to the degree of Master of Architecture, candidates

- (a) shall comply with the General Regulations and the Regulations for Taught Postgraduate Curricula;
 - (b) shall possess a Bachelor of Arts in Architectural Studies degree of this University; or another equivalent qualification from another university or comparable institution accepted for this purpose;
 - (c) for a candidate who is seeking admission on the basis of a qualification from a university or comparable institution outside Hong Kong of which the language of teaching and/or examination is not English, shall satisfy the University English language requirement applicable to higher degrees as prescribed under General Regulation G2(b); and
 - (d) shall satisfy the examiners in a qualifying examination if required.
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MAR2 Qualifying examination

- (a) A qualifying examination may be set to test candidates' formal academic abilities or their abilities to follow the prescribed courses. It may consist of one or more written papers or their equivalent and may include a project report.
 - (b) Candidates who are required to satisfy the examiners in a qualifying examination shall not be permitted to register until they have satisfied the examiners in the examination.
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MAR3 Period of study

The curriculum shall normally extend over two academic years of full-time study with an optional summer semester. Candidates shall not be permitted to extend their studies beyond the maximum period of registration of four academic years of full-time study, unless otherwise permitted or required by the Board of the Faculty.

MAR4 Completion of curriculum

To complete the curriculum, candidates

- (a) shall satisfy the requirements prescribed in TPG 6 of the Regulations for Taught Postgraduate Curricula;
- (b) shall enrol for courses of not less than 144 credits (the normal load per semester being 30-36 credits, excluding the summer semester) in the manner specified in these regulations and the syllabus;
- (c) shall follow instruction in the courses prescribed and complete satisfactorily all coursework set either as assessment tasks or practical work;
- (d) shall satisfy the examiners in all assessment tasks as may be required;
- (e) shall pass all core courses; and

- (f) shall pass seven elective courses, and enrol in no more than two elective courses in any of the categories:

- I: History and Theory
- II: Urbanisation and Habitation
- III: Technology and Sustainability
- IV: Digital Media and Fabrication
- V: Practice and Management

Subject to approval by the Head of Department, candidates may take courses offered by other taught postgraduate curricula in the Faculty of Architecture to fulfil the elective course requirements.

MAR5 Assessment

Candidates shall be assessed for each of the courses for which they have registered, and assessment may be conducted in any one or any combination of the following manners: written examinations or tests, written assignments or exercises, continuous assessment of performance, laboratory work, field work, research, practical work or project reports, or any other manner as determined by the examiners.

MAR6 Grading system

Individual courses shall be graded according to letter grades, their standards and the grade points for assessment as follows:

Grade	Standard	Grade Point
A+	Excellent	4.3
A		4.0
A-		3.7
B+	Good	3.3
B		3.0
B-		2.7
C+	Satisfactory	2.3
C		2.0
C-		1.7
D+	Pass	1.3
D		1.0
F	Fail	0

MAR7 Failure in assessment

The following clauses apply to candidates of all years:

- (a) Candidates who have received a passing grade in a core design course (i.e. Design 11-14) in any semester:
- (i) but who fail on the first attempt in not more than one other core course in any semester may be permitted to present themselves for re-assessment in the same course before the commencement of the next academic year. Those who fail in the second attempt shall be permitted to proceed to the subsequent semester of the curriculum and to present themselves for re-assessment in the same course only once more in the following academic year;
 - (ii) but who fail in more than one other core course in any semester on first attempt shall not be permitted to proceed to the subsequent semester and shall be required to repeat all or part of that year's curriculum and to present themselves for re-assessment in the following academic year. If they fail again on second attempt, they may be permitted to present themselves for re-assessment

only once more before the commencement of the following academic year.

- (b) Candidates who have received a failing grade in a core design course (i.e. Design 11-14) in any semester shall not be permitted to continue to the next semester and must be required to repeat the course and not be allowed to take any other courses, exclusive of elective course(s).
 - (c) Candidates who have failed one or more elective course(s) in their first attempt may be required to enrol in the same or an alternate elective course(s) in the following year to make up for the failed course(s). Candidates failing in elective course(s) will not normally be offered an opportunity for re-assessment without re-enrolment in the same or an alternate elective.
 - (d) Candidates who have failed in any course at the third attempt shall be recommended for discontinuation of studies under the provisions of General Regulation G12.
 - (e) Candidates who have exceeded the maximum registration period shall be recommended for discontinuation of studies.
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MAR8 Assessment results

On successful completion of the curriculum, candidates who have shown exceptional merit may be awarded a mark of distinction, and this mark shall be recorded in the candidates' degree diploma.

(Revised on 7 January 2021)

SYLLABUSES FOR THE DEGREE OF MASTER OF ARCHITECTURE (MArch)

(See also General Regulations and Regulations for Taught Postgraduate Curricula)

(These syllabuses are applicable to candidates who are admitted to the Master of Architecture curriculum in the 2025-26 academic year and thereafter)

For the purpose of these syllabuses, the teaching of each course will be conducted within one semester.

Candidates are required to complete 144 credits, consisting of 12 core courses (120 credits) and 4 elective courses (24 credits), and enrol in no more than 2 elective courses in any of the categories; in order to complete the two-year full-time curriculum.

Study Plan	Semester One	Semester Two
Year One	3 core courses + 1 elective course	4 core courses
Year Two	3 core courses + 1 elective course	2 core courses + 2 elective courses

Course List		
ARCH7073	Professional Practice I	(6 credits)
ARCH7074	Architecture and Its Discourses	(6 credits)
ARCH7075	Design and Technology of Sustainable Buildings	(6 credits)
ARCH7076	Advanced Structural Systems	(6 credits)
ARCH7077	Design and Construction Communication	(6 credits)
ARCH7081	Design 11	(18 credits)
ARCH7082	Design 12	(18 credits)
ARCH7117	The Count-Down Town: Hong Kong Architecture & Urbanism from the 1840s to the Present	(6 credits)
ARCH8073	Professional Practice II	(6 credits)
ARCH8075	Design Methods	(6 credits)
ARCH8083	Design 13	(18 credits)
ARCH8084	Design 14	(18 credits)
Any 4 elective courses under any category (6 credits each) No more than 2 elective courses in any of the categories. The elective(s) can be taken in an optional summer semester in Year 1 for the purpose of frontloading elective credits from Year 2.		(24 credits)
Total		144 credits

CORE COURSE DESCRIPTIONS

ARCH7073 Professional Practice I (6 credits)

The course outlines the Development Process and to elaborate on the HKIA and RIBA Plan of Works. The objectives of each stage and the associated deliverables required are taught. It will cover Statutory Control of Building Works in Hong Kong in particular, including the evolution of Buildings Ordinance and its application, the duties of an Authorised Person and its professional liability, Building Regulations and Codes of Practice, Practice Notes for Authorised Persons (PNAPs) and the Submission Procedure. The course will introduce other related Ordinance and Codes of Practice such as Town Planning Ordinance, Land issues and Lease control such as land exchange, lease modification, land titles and deeds etc., and other related ordinances.

Assessment: 100% continuous coursework assessment

ARCH7074 Architecture and Its Discourses (6 credits)

This course is a critical mapping of the ideas, practices and polemics that shape architecture and discourse today. Through a series of case-studies, students will be introduced to the larger debates, problematics and themes which are critical to understanding modernism and its relationship to the contemporary. Understanding the cultural, territorial, and technical issues embedded within these projects will help students generate a meaningful framework through which contemporary issues in architecture may be assessed. Emphasis will also be placed on understanding challenges to contemporary architectural practices, theories and their origins vis-à-vis the continuation, diversification, and transformation of the modernist tradition over the course of the 20th century. Attention will be paid to the historiographic questions of how architects defined the terms of their “present”, multidisciplinary approaches and alternative modes of practices, shifts in the role of the architect, as well as the perception and reception of the discipline/profession at large.

Assessment: 100% continuous coursework assessment

ARCH7075 Design and Technology of Sustainable Buildings (6 credits)

Practical and theoretical principles and methods for the design, assessment and certification of environmentally sustainable buildings will be taught and discussed. Students in the course will seek to develop a critical understanding of sustainability in an architectural context through the reading of seminal texts, case study analysis and design exercises. Contemporary certification methods such as the Hong Kong Building Environmental Assessment Methods, the Green Building Design Label of China, and the US Leadership in Energy & Environmental Design (LEED) methods will be presented to better understand regional and global positions on the practice of building sustainability. The course will also introduce advanced computational technology to integrate environmental performance directly into the design process to investigate possibilities for the future of green buildings.

Assessment: 100% continuous coursework assessment

ARCH7076 Advanced Structural Systems (6 credits)

This core curriculum course is designed to refine and develop basic experience gained in undergraduate level structures courses. The course presents specific issues and topics in advanced structural systems for architecture. The course will present precedent projects, case studies and strategies for integrating structural principles and analysis into the design process. Course topics may include, but are not limited

to the study of established and exploratory structural systems, construction materials, and modes of collaboration between structural engineers and architects.

Assessment: 100% continuous coursework assessment

ARCH7077 Design and Construction Communication (6 credits)

As the team leader of the multi-disciplinary design team, it is paramount that students are fully aware of the principles of engineering design: Structure, Building services and Sustainability, Technology and Materials, and other fields of building physics and building economics. The course will introduce an integrated approach to the above as practice in the industry and expected from our students. These principles are presented with life examples with emphasis on how to communicate the above through drawings, documentation and verbally.

Assessment: 100% continuous coursework assessment

ARCH7081 & ARCH7082 Design 11 and Design 12 (18 credits each)

These courses are conducted as design studios that lead students through the process of problem-based learning in architecture. Each studio focuses on important aspects of the architectural and urban design fields synthesizing architectural design, building technology, architectural history and theory, and professional practice through design and research exercises. Course assessment is based on the completeness of the design solutions, the clarity and quality of the visual materials and student presentations, the originality and creativity of the project.

Field trips may be required for the course.

Assessment: 100% continuous coursework assessment

ARCH7117 The Count-Down Town: Hong Kong Architecture & Urbanism from the 1840s to the Present (6 credits)

The goal of this course is twofold: First specifically, make a critical study of Hong Kong's architecture and urbanism; second, more generally, introduce a set of historical and theoretic concepts that can help articulate on the development of modern/contemporary architecture and urbanism in their relations to the broader social-cultural projects/processes in global context. These concepts include modernity/post-modernity, colonialism/post colonialism, and globalization. A series of lectures will be offered, each focused on one spatial theme. The topics range from HK's accomplishments in land settlement, city planning, urban form and architectural typology, to its challenges in public housing, public space and heritage preservation. Each lecture will attempt to combine the analysis with both Hong Kong and global perspectives.

Assessment: 100% continuous coursework assessment

ARCH8073 Professional Practice II (6 credits)

The course outlines the Principles of Law and Contract applicable in industry. Agreements and Forms of Contract for use in Hong Kong, including those with and without quantities and for sub-contractors etc. will be introduced. Types of contract for alteration or addition works where a lump sum price is not suitable will be covered. Students will acquire a general understanding of the various means of resolution of contractual disputes including arbitration, mediation, litigation etc.

The second part of the course will outline the conditions of engagement of an Architect and Authorised

Person in Hong Kong. Codes of Professional Conduct of the HKIA and ARB, and Conduct of Architectural Competitions will be taught. In addition, Types of Practice/Company and Practice Management required to be a sustainable business will be discussed.

Pre-requisite: ARCH7073 Professional Practice I.

Assessment: 100% continuous coursework assessment

ARCH8075 Design Methods (6 credits)

This course aims to equip students with the skills necessary to undertake their thesis projects. Through a mix of lectures, seminars, independent research, and individual assignments, students will be introduced to the foundational concepts shaping the design process and a broad range of media typically used by architects to conceive and represent buildings and architectural ideas (drawings, models, maps, etc). Each session is designed to encourage hands-on experimentation with these media, enabling students to evaluate their methodological strengths and applicability to their design goals. The final three sessions are dedicated to developing non-design-related skills crucial for researching, devising, and presenting any project. By the end of the semester, students will have acquired a comprehensive set of theoretical, practical, and soft skills, preparing them to embark on their thesis projects.

Pre-requisite: ARCH7081 Design 11 and ARCH7082 Design 12

Assessment: 100% continuous coursework assessment

ARCH8083 & ARCH8084 Design 13 (18 credits) and Design 14 (18 credits) (Capstone Experience)

ARCH8083 is conducted as a design studio that leads students through the process of problem-based learning in architecture. Each studio focuses on important aspects of the architectural and urban design fields synthesizing architectural design, building technology, architectural history and theory, and professional practice through design and research exercises. Course assessment is based on the completeness of the design solutions, the clarity and quality of the visual materials and student presentations, the originality and creativity of the project.

Pre-requisite: ARCH7081 Design 11 and ARCH7082 Design 12

Field trips may be required for the course

Assessment: 100% continuous coursework assessment

ARCH8084 concludes the architectural curriculum by means of a thesis studio design project. Candidates are required to conduct a self-directed design project under the supervision of a faculty member and to use the studio facilities and resources of the Department to their utmost extent. In addition to demonstrating satisfactory ability in the technical aspects of architectural practice, the thesis should produce innovative work to extend and enrich knowledge in the broader discipline of architecture.

Pre-requisite: ARCH8083 Design 13 and ARCH8075 Design Methods

Field trips may be required for the course

Assessment: 100% continuous coursework assessment

ELECTIVE COURSES

There are five categories of elective courses offered by the MArch as well as other taught postgraduate curricula in the Faculty of Architecture available for selection by candidates. These courses may be taken in either the First or Second Year, or an optional summer semester after the First Year:

- I: History and Theory
- II: Urbanisation and Habitation
- III: Technology and Sustainability
- IV: Digital Media and Fabrication
- V: Practice and Management

1. The Department shall evaluate if the candidate's prior academic coursework satisfies the HKIA / ARB accreditation criteria. A survey is sent to candidates before the semester for their input of course equivalency in structural system, technical and history knowledge. The respective course teacher shall determine if there are study gaps which the candidates have to fill up during their studies in the remaining study period. The following criteria shall be evaluated:

- a. Chinese and Western History and Modernism
- b. Structural Systems

If the course teacher determines there is a study gap, candidates shall enrol in one or more elective courses below, subject to course teacher's recommendation:

- a. ARCH7094 Global Perspectives in Architectural History
- b. ARCH7173 History of Modern Architecture
- c. ARCH7330 Principles of Building
- d. ARCH7331 Introduction to Building Structures
- e. ARCH7332 Building Construction and Practice

2. Candidates shall be guided in selecting these courses. It should be noted that not all courses listed in the syllabus would be offered every year and that new course(s) may be introduced.
3. Candidates shall enrol in no more than two elective courses in any of the categories, unless otherwise permitted by the Head of Department.
4. ARCH7465 Digital Media and Methods will be considered as a required course for candidates who have not previously taken equivalent courses. Candidates who have completed equivalent courses, and can provide supporting evidence (i.e. transcript and/or portfolio) are eligible to apply for exemption. The final approval for course waiver is subject to the endorsement by the Head of Department and/or the Programme Director with the final approval from the Board of the Faculty.
5. The assessment of the course may take the form of a written, practical or oral test, or by continuous assessment or by any combination of these. If a candidate is required to repeat a course because of failure but that particular course is not offered in the following year, his choice of an alternative course must have the approval of the Head of Department and the relevant course teachers.
6. Choice of other courses offered by other taught postgraduate curricula in the Faculty of Architecture, with a maximum limit of 1 course, is subject to prior approval by the Head of Department in consultation with the respective Programme Directors. Priority will be given to candidates from the respective curricula. Please check the courses offered by these curricula at the time of enrolment and refer to the respective syllabus for their course descriptions.

CATEGORY I: HISTORY AND THEORY

ARCH7094 Global Perspectives in Architectural History (6 credits)

The purpose of this course is two-fold: to introduce students to the development of major architectural ideas and a selected group of significant architectural monuments in Europe, from ancient times to the nineteenth century, and the unique aesthetic, cultural, and historical issues that frame them; and to

present the main issues in the study of architecture and the various methods used to analyze and interpret buildings in various spatial and temporal contexts. Lectures and course content will emphasize key themes of cultural, economic, and political interconnectivity and their impact upon architectural production, not only within Europe, but around the world.

Assessment: 100% continuous assessment

ARCH7116 Urban Acupuncture (6 credits)

The seminar examines a unique mode of urban spatial practice collectively labelled as ‘Urban Acupuncture.’ Modernist planners/architects with their totalizing urban vision often favour massive, sweeping city clearances and reconstructions, similar to doctors performing radical surgeries. In contrast, “urban acupuncturists” prefer to choose small-scale, catalytic urban interventions with the condition that they should be realizable within a relatively short period of time and capable of achieving a maximum impact on their immediate surroundings. Based on a close reading of Jane Jacobs and Aldo Rossi, the course will study a set of Urban Acupuncture cases, which are diverse in typology, geography and discipline.

Assessment: 100% continuous coursework assessment

ARCH7118 Buddhism, Architecture and Buddhist Architecture (6 credits)

This course explores the philosophies of Buddhism as applicable to Architecture and various forms of Buddhist Architecture. Students will learn the overview of Buddhist Architecture including the historical origin, meaning and cultural background of different building typologies of Buddhism in various regions including India, Sri Lanka, Han China, Japan and Tibet etc. This is also an introduction to the understanding of Oriental culture where Buddhism is an important basis. The course will cover the basic forms and symbolic meaning of Buddhist Architecture in the Theravada, Mahayana, Vajrayana and Zen schools of Buddhism with reference to the architectural examples in the appropriate regions. The architecture of Buddhism will cover monasteries, rock-hewn caves, stupas, temples as well as the Asoka pillar. The course will explore some important architectural icons such as the four holiest sites in India, Samye monastery in Tibet, Ryoanji Temple, Horyuji and Kenninji Temples in Japan, Famen Temple in China, Borobudur in Indonesia, Cave temples of Dambulla in Sri Lanka etc. Also, the influence of Buddhist philosophy on Modern Architecture will also be explained.

Assessment: 100% continuous coursework assessment

ARCH7119 Politics of / Space / of Performance (6 credits)

The course will be of interest for students interested in discovering intersections between space, politics, architecture and performance. These themes will be developed through a parallel survey: of contemporary thinking about space and the political; and of performative architecture.

The “spatial turn” in the humanities and social sciences has meant that discourses about space have proliferated in diverse disciplines: from geography, sociology, economics and cultural studies. How disciplines outside of architecture take apart and think about space can help inform and situate our own positions. While a deep, disciplinary knowledge of any of the thinkers we will be looking at is not possible, the course objective is to provide students with a framework for further investigation and the capacity to relate ideas to their own architectural project or position.

While “architectural performance” is commonly used to describe how a building responds or behaves in relation to changes in the environment, performative architecture uses elements from theatre, dance, music and the occupation of public space, for example, to expand architecture’s domain. Performative architecture crosses disciplinary and creative boundaries and has been an important part of architecture’s

repertoire throughout its history.

We will look at contemporary thinking by reading interviews and watching lectures by selected figures and at performative architecture through student presentations of contemporary and modern case studies. Close and active reading, in-class discussion and a critical engagement with all of the material that we have the chance to encounter will be a pre-requisite to successful completion of the course. Students will be encouraged to draw connections to the way readings and case studies relate to studio or thesis work.

Assessment: 100% continuous coursework assessment

ARCH7124 Utopian Architecture and the French Revolution (6 credits)

The French Revolution that occurred from 1789 to 1799 was a historical rupture that shook the foundations of Enlightenment Europe. For many historians and writers, the Revolution and its subsequent Terror signalled the birth of modernity and the rise of the contemporary nation state. Its legacy has been felt globally, as it inspired (or caused resistance to) successive waves of revolution in various geographies that sought to recapture its utopian spirit. We study this utopian ideal through the lens of architecture, beginning with the work of the radical monument-makers of late-eighteenth century France, continuing with the theatrical and dreamlike architecture of the Hegelian Idealists in Germany, and finding ourselves ultimately in the twentieth century, examining the architecture of the Russian revolution and of 1930s Italy. In each case, we will carefully unpick the complex relationship between architecture and ideology, including the moments this uneasy marriage succeeded in its utopian aims, as well as the many accounts of its abject failure.

Assessment: 100% continuous coursework assessment

ARCH7125 History, Theory and Society (6 credits)

This course delves into the history and theoretical foundations of architecture, examining how it has evolved alongside societal, cultural, and technological advancements. Through a comprehensive exploration of various architectural styles, movements, and influential figures, students will develop a profound understanding of the built environment's significance and impact on society. The content and topics of this course may vary year to year.

Assessment: 100% continuous coursework assessment

ARCH7147 Reflective Projections (6 credits)

This seminar examines the role of feedback within the design process. Together we will examine how to gain the most appropriate feedback to propel a project forward, how to actively respond to feedback while receiving it, and how to subsequently analyze the feedback received, in order to develop an approach to react to the feedback and record the results of the progress.

Architecture is a discipline engaging with numerous divergent fields. In order to further develop an initial idea we need to test the ability for the design to respond to a diverse range of criteria, use, and audiences. Tracing the transformation of an idea and eventual diversification into other disciplines, this seminar analyzes the role feedback has in the production of innovative and creative work.

Assessment: 100% continuous coursework assessment

ARCH7160 The Modern Movement and Beyond (6 credits)

The course is concerned with theoretical aspects of design activities in architecture. It attempts to trace

the evolution of spatial concepts significant to the modern movement and beyond. The course consists of two parts: analytical and synthetic. The analytical part is to develop the students' skill for deeper understanding of the complexity of the built form. The synthetic part attempts to follow the vicissitudes of architectural design through the examination of the works of significant architects.

Assessment: 100% continuous coursework assessment

ARCH7161 Vernacular Architecture of Asia (6 credits)

Vernacular built-form is the most obvious and direct means of expression of a people and their culture. Through the examination of different indigenous building types in different parts of Asia, viz. China, Japan, Indonesia, Malaysia and Thailand, students are able to develop a broader sense of understanding of the relationship between architecture, climate and culture.

Assessment: 100% continuous coursework assessment

ARCH7162 Architecture and Memory (6 credits)

This elective course takes a closer look at the art of motion pictures. Through various theoretical lenses, films are used to create new grounds for architectural discussions while enhancing our understanding of existing ones. Therefore, we will explore the productive interplay between cinematic productions and architectural discourses. The aim is to focus attention on works of quality in order to discuss the evolution of motion pictures in the architectural realm.

Driven by a broad range of films, this elective course will focus on particular architectural terms such as mapping, observation, narrative and memory. These terms are known in architectural studies, but rarely discussed through the lenses of various filmmakers, seen not in a static but a procedural mode of engagement. In order to examine these theoretical frames, we will promote the discipline of film making as a potential field of architectural engagement, thus giving students a relevant film repertoire in the course of their architectural studies.

Assessment: 100% continuous coursework assessment

ARCH7163 Architectural Histories: Typology and Spaces of Cave Temples (6 credits)

Addressing the spatial and typological study of monastery, the course introduces students to the knowledge of Buddhist architecture in China and Asia, looking into their physical and visual significance, as well as religious ideas and spatial practices. By studying key examples of cave temples in Dunhuang across the silk road, the course offers a unique window into societal and cultural transformation through time across Eurasian continent, reviews their spaces, visual representations, and meanings in their historical contexts, as well as their performances through rituals and religious aspiration. Undertaking both historical and cross-cultural perspectives, the course explores how similar concepts and prototypes were developed in different times, and how their distinct form contributed to our understanding of Chinese monastery architecture. Beyond chronological and thematic examinations, the course encourages students to explore how spatial and visual components became agents of ideas that representing, and also influencing, the development of typology for Chinese temples.

Assessment: 100% continuous coursework assessment

ARCH7164 ReBuilding Utopia: Visions of Architecture in the Post-War World (6 credits)

This course examines the occurrences of the utopian tendency within the production of architecture in the aftermath of World War II – an event of global magnitude that triggered a series of political, social, economic and cultural consequences in its wake. The bipolar struggle that characterized most of the latter half of the 20th century implicated architecture in many ways and at many levels. Amidst post-war reconstruction in Europe and Japan, the continuation of war via the Cold War, widespread decolonization and the territorial divisions of the globe into First, Second and Third Worlds, the rise of America as the dominant superpower, and the internationalization of American popular culture, visions of the future were conceived. Within these post-war contexts and post-colonial realities, the promise of utopia was not simply proclaimed by the avant-gardes. Under the rubric of democracy and modernization, the United Nations, governments of nations, non-governmental organizations, academic institutions and multi-disciplinary groups, took on the task of vision building. At the same time, there emerged those who conceived of counter-utopias and dystopias as responses to the experiences of global homogenization and upheavals occurring at local and regional levels. How was architecture instrumental in forwarding the objectives of the visionaries? How did technologies, methodologies and mindsets find their way into architecture and their corresponding discourses? In what ways did the multiple trajectories of utopia and utopian building inform the history of the discipline as it is understood today? Class discussions are based on assigned readings and individual presentations. Readings are primarily architectural texts but also include definitive texts from other disciplines including cultural studies, geography, sociology, and philosophy that are important in framing pertinent issues or events.

Assessment: 100% continuous coursework assessment

ARCH7165 Modern Architecture and the Visual Realm (6 credits)

The objective of this seminar is to investigate the relationship of modern architectural work and the visual realm. The development of architectural theory, publication and/or detailing which simultaneously accept and deny the perception on modern architecture as a retinal art form will be the subject of discussion and investigation. In-depth analysis conducted on selected modern buildings form the basis of argument for students to develop their own critical thinking towards architectural theory and building appreciations.

Assessment: 100% continuous coursework assessment

ARCH7166 Research Seminar in Visual Cultures (6 credits)

This course is a visual research seminar with a serious interest in self-directed investigation into urgent spatial, social, cultural, political and economic issues in the world of visual culture today. The aim of this seminar course is to provide a theoretical knowledge, independent visual research issues of cultural difference, performativity, visual display, aurality, encounters with audiences and the production of subjectivities. The seminar will collaborate with art institutions to develop activism towards issues of visual cultures, emphasis will be put on visual research and its production.

Assessment: 100% continuous coursework assessment

ARCH7167 Topics in Modernism (6 credits)

This seminar investigates the multitude of theories and practices made manifest in architectural and urban form over the course of the late 19th and 20th centuries. Building upon the fundamental question of what constitutes modernity, modernization, and modernism, we will situate architecture, urbanism, and the architect within a series of broader epistemologies and theoretical concepts, including the diaspora, cross-cultural interaction, globalization, memory, nationalism, Orientalism, the nature of dissent, regionalism, technology, and the problem of translation. Through intensive reading, in-class discussion, and students' individual research projects, the course will also provide a forum for students to discuss

these issues with each other and explore new lines of critical inquiry as they pertain to the nature of design research.

Assessment: 100% continuous coursework assessment

ARCH7173 History of Modern Architecture (6 credits)

This course examines the history of modern architecture, from the late 19th century to the emergence of post-modernism in the late 1960s. Students will explore modern architecture not as a cohesive or isolated product of any formal school of thought but rather as a complex and contradictory history bound by key formal, theoretical, social, cultural, technological, economic, as well as political moments in time. Throughout the course students will touch upon three key influences and confluences in the development of modern architecture: the key material changes brought about by technology and industrialization, received ideas of progress stemming from the utopian legacy of the Enlightenment, as well as the exigencies of colonization and its aftermath. This course raises major disciplinary questions, themes, and issues that will reverberate throughout the subsequent history and theory curriculum. Content will focus on the European avant-garde as well as intersecting architectural developments in North America and Asia.

Assessment: 100% continuous coursework assessment

ARCH7175 Architectural Studies Field Workshop (6 credits)

This course is an intensive workshop involving in depth field research in the topic of architectural studies.

Assessment: 100% continuous coursework assessment

ARCH7177 Critical Readings in Modernism (6 credits)

The course takes Walter Benjamin's The Arcades Project as a model for reading urban experience. Through an assemblage of fragmentary notes — from philosophy, journalism, publicity and poetry — Benjamin left behind a record of 19th century Paris and a template for the material history of cities. Students will look closely at The Arcades Project (including sources such as Baudelaire, Bergson, Proust, Corbusier and Giedion), while at the same time compiling a collective reading of contemporary Hong Kong.

Assessment: 100% continuous coursework assessment

ARCH7179 Architects and Politics: Exhibiting Politics (6 credits)

This course will examine architectural exhibitions as an important tool for architects practicing politics, where architecture and politics are considered to be two separated worlds. The research seminar will introduce the internationally recognized exhibition platform from Biennales, World Expo, and other large site-specific cultural events enable to produce for those interested in understanding architecture beside building alone.

Assessment: 100% continuous assessment

ARCH7180 Topics in Architectural History and Theory (6 credits)

***cross-listed under Category III: Technology and Sustainability**

This course gives students the opportunity to further explore specific issues and topics in architectural history and theory. Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7183 Topics in Architectural History, Theory and Criticism (6 credits)

This course gives students the opportunity to further explore specific issues and topics in architectural history and theory. Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7184 Beyond the Border: Early Modernist Chinese Architects in the South (6 credits)

The contemporary city of Hong Kong has been built over the last century by both Architects and Non-architects. As there are criticism on the architectural scene of Hong Kong as monolithic and repetitive, the saying always goes like "there are fantastic urban scenes but no architecture". However, when we begin to look deeper in the cultural roots of modernist architectural development in cities and regions of Southern China [including Shanghai, Hong Kong, Taiwan], there was an early generation of modernist architects educated abroad exploring an independent architecture that spoke for ourselves in context. These attempts were made in respond to our particular cultural preferences, climatic conditions and local materials. By examining these modernist architects who took different perspectives in their interpretation of modernism [e.g. C.K. Chang, Luke Him Sau, Eric Cumine, Wang Da-hong, etc], we can understand how their architecture converges towards a common vision of 'Chinese Modernism'.

Assessment: 100% continuous coursework assessment

ARCH7269 Architecture and the City (6 credits)

***cross-listed under Category II: Urbanisation and Habitation**

This contemporary urbanism seminar will investigate urban spatial production processes through selected case studies of 'culture-led urban developments' in the cities of Hong Kong and Singapore. Weekly sessions will thematically introduce the issues of urbanism, from land ownership, public-private partnerships, governance structures, gentrification, etc. that have direct impact on architecture and the built environment in the city. Guest experts from Hong Kong and the region will also give input lectures on selected themes throughout the semester. Students, working in teams, will analyse the case studies using the tools learned in these sessions. Each team will produce a clearly narrated compendium of analytic drawings and diagrams that assesses each of the case studies, which together highlight the comparative analysis built into the duo-city multiple case study.

Assessment: 100% continuous coursework assessment

ARCH7380 Republic of Excess: Korea and Contradiction (6 credits)

There is an on-going proliferation of diverse architectural works taking place in Korea that is distinct from the rest of Asia in terms of evolutionary logic and physiognomy. However, at large, we lack a system of understanding this process of evolution in Korea. This course will examine the origin of the current cultural production in Korea and its relation to the field of architecture, city and history. The philosophical concept of Simulacra: Copies without originals will be the overarching principle behind our attempt to identify and analyse the significance of new and old architecture in Korea. The findings from the course will be shared to engage in further dialogue with Korean counterparts and beyond.

Assessment: 100% continuous coursework assessment

ARCH7401 Real Utopias (6 credits)***cross-listed under Category II: Urbanisation and Habitation**

In Architecture, urbanism and all disciplines of design, ideas are mainly written, analysed, described and publicised through drawings. Such was the case with the drawings of, Hilberseimer (sectional), as well as Superstudio (3-dimensional speculative collage) and many others... Drawings are processes of understating, informing, speculating and projecting. They are a precise code to what they describe and what they propose. The city has been described through both very speculative (fictional) as well as very definitive (real) drawings throughout centuries. Oswald Matthais Ungers used the capacity of speculative drawings as a unique type of description and projection of the realities of the city and not the city Utopia. This seminar will explore, investigate and cross-examine the modern history of representation of the city and its infrastructures through their projective potentials leading to better realities influencing the social/political, the cultural and the economic structures of our societies.

Assessment: 100% continuous coursework assessment

ARCH7404 Japan, Architecture, Myth: Unmasking Its Form and Content (6 credits)

Architecture is a part of society: no more, no less. This course will examine how architecture functions as a form of cultural production within society using Japan as a case study. In the process, we will uncover how various cultural components such as history, literature, and architecture work closely together to form a self-conscious construct that facilitates and maintains an idealized collective identity.

Assessment: 100% continuous coursework assessment

ARCH7406 Architects and their Chairs (6 credits)***cross-listed under Category IV: Digital Media and Fabrication**

“The chair is a very difficult object... There are endless possibilities and many problems – the chair has to be light, it has to be strong, it has to be comfortable. It is almost easier to build a skyscraper than a chair.” - Mies van der Rohe

The chair materializes the way of living. From a ceremonial object symbolizing power before enlightenment, to a mundane utilitarian object associated with work in the industrial age, and eventually to what represents the contemporary lifestyle and personal identity, the chair provides a sectional view of the modern life. Architects' chairs particularly, charged with ideas also manifested in their houses, are statements of their vision toward domestic living.

Yet such statements are achieved through evolution, not revolution. Looking back at the lineage of Danish tradition in furniture design, whose many components grew out of Chinese Ming chairs, one may be able to understand how a classical form that originated in one culture could be altered and adapted to another. The perspective toward design as an evolutionary process constitutes the methodology of this workshop, believing that innovation is not to break up with history, but accomplished through exhaustive and iterative development from a precedent.

Assessment: 100% continuous coursework assessment

CATEGORY II: URBANISATION AND HABITATION

ARCH7260 Housing in Urban Development (6 credits)

The course investigates the production of housing within the social, political and spatial conditions in urban development. Topics include social and economic determinants of housing location, standards and quality of design; impact on urban development; analysis of housing production including site and infrastructure, provisions; constraints and innovations in the housing industry; and case studies by field trip.

Assessment: 100% continuous coursework assessment

ARCH7264 Contemporary Urbanism (6 credits)

This course integrates urban analysis research and architectural design methodologies to examine relationships between architecture and urbanism through the development of a working understanding of urban and architectural form in the context of the Contemporary City. The course examines the contemporary urban condition through readings of critical theories, analysis of developmental models, as well as empirical investigation of urban sites. In conjunction with physical, historical, social and economic research, alternative design strategies are explored to challenge existing presumptions and models of the contemporary urbanism.

Assessment: 100% continuous coursework assessment

ARCH7266 Globalization and Resistance in Architecture (6 credits)

This course aims to examine how the condition of globalization reveals itself in architecture and the urban environment. With an improved understanding of the various forces at play, students are encouraged to think of ways to support a citizenry participation and critique in the making of our buildings and cities in the era of globalization. Paul Ricoeur described a condition of “universal civilization” that encapsulates a scientific spirit and a consumer culture. Today, we are perhaps operating universally under the effects of globalization, aided in no small part by the advent of the information age as well as a more liberal flow of capital and labour. This course will seek architecture as a barometer that measures these effects – appraising specifically the qualities and identities of buildings and districts built or transformed as a result of globalization. Through ten specific readings and building types, the course will examine the co-operative and resistant practices and forms at play.

Assessment: 100% continuous coursework assessment

ARCH7268 Urbanism Field Workshop (6 credits)

This course is an intensive workshop involving in depth field research in the topic of urbanism.

Assessment: 100% continuous coursework assessment

ARCH7269 Architecture and the City (6 credits) *cross-listed under Category I: History and Theory

This contemporary urbanism seminar will investigate urban spatial production processes through selected case studies of ‘culture-led urban developments’ in the cities of Hong Kong and Singapore. Weekly sessions will thematically introduce the issues of urbanism, from land ownership, public-private partnerships, governance structures, gentrification, etc. that have direct impact on architecture and the built environment in the city. Guest experts from Hong Kong and the region will also give input lectures on selected themes throughout the semester. Students, working in teams, will analyse the case studies using the tools learned in these sessions. Each team will produce a clearly narrated compendium of analytic drawings and diagrams that assesses each of the case studies, which together highlight the comparative analysis built into the duo-city multiple case study.

Assessment: 100% continuous coursework assessment

ARCH7270 The “Navel” of the Earth (6 credits)

This course looks at the Ancient Greek sites, their history, their topography and their mythological connections both with the old world and the contemporary one. These sites constitute a cultural infrastructure that has forever marked our public lives, as much as the physical ones have. Like the great railways and the electric networks, which crisscross our countries, these places reveal themselves through our multiple readings, artistic, natural, linguistic, each one to suit our ever more heterogeneous and globalized collective.

Assessment: 100% continuous coursework assessment

ARCH7271 Composed Grounds (6 credits)

The ground is the primary surface of human contact and navigation. Whatever the ground is or does, it affects our ability to divide, connect and interact with each other. When tasked with designing grounds, lines need be drawn, zones identified, routes and destinations established; all inevitably leading to a final composition. If composition is understood as the arrangement of elements according to certain principles, what are these principles? What kind of intelligence is embedded within them? What do they contribute in the context of ground? Composed Grounds will provide, through comparative analysis, an overview of composition-driven outdoor spaces. The objective will be to identify (beyond style) constituent elements as well as prevalent means of organization. We will be looking to reveal each work's design intent through their layers, zones, routes, patterns, connections and (where applicable) programs. As types, Gardens and Parks will take precedence, but these will be loosely interpreted to allow for the inclusion of outdoor spaces with comparable qualities. Furthermore, subjects of investigation may be integrated with or disassociated from Architecture. All selections, however, will exhibit carefully orchestrated compositions.

Assessment: 100% continuous coursework assessment

ARCH7272 Together: Communes, Collectives, and Communities - Studying Socio Political Ecologies (6 credits)

This course offers insights into concepts within the disciplines of philosophy and social political theory that help in the understanding of living and architecture in relationship to its politics, ecologies and economies. The course proposes a mixed method in teaching, including seminars, tutorials and one lecture. The seminar sessions will be taught in a predominantly flipped classroom-teaching environment, to enhance discussions on, and engagement with, the materials of the course.

Assessment: 100% continuous coursework assessment

ARCH7273 Topics in Urban/Rural Studies (6 credits)

This course gives students the opportunity to further explore specific issues and topics in urban design and planning. Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7274 Topics in Urban Studies (6 credits)

This course gives students the opportunity to further explore specific issues and topics in urban design and planning. Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7275 A Visual Diary of Paris: Observe, Read, Collect, Draw, Record (6 credits)

This course will explore and understand the dense urban fabric of the city of Paris. Through walking,

observing, collecting, recording and drawing we shall understand the city's relationship to its geography, landscape and infrastructure and how its architecture and landscape are a "synthesis" and not a "juxtaposition". We will learn how the politics and the governance of the city has ruled the city's development and its environs since the 12th century. Students will be guided through centuries of urban and architectural sedimentation, the landscapes and geographies that are displaced and created will be at the core of our discussions. Each student is required to carefully record every possible observation through photographs, drawings, postcards, objects, or extracts from books, newspapers or writings on the city.

Assessment: 100% continuous coursework assessment

ARCH7276 City Metamorphosis: Urban Residual Space (6 credits)

As a direct result of massive rural-urban migration, we are faced with distinctive city transformation issues in China. This course will cover urban renewal issues in selected local districts from and around the Yangtze River Delta (YRD) region. Historical, Cultural, Socio-economic issues that led to the formation of urban residual space in the inner cities will be identified. The renewal potentials of these spaces will be critically examined and researched upon on. A new set of design parameters would be generated from the research findings. The parameters act as catalyst for plausible design proposals.

Assessment: 100% continuous coursework assessment

ARCH7277 Refugee Camp Design (6 credits)

In 1961, in opposition to the "war games" and cold war logic, Buckminster Fuller proposed the "World Peace Game" and instructed players to "Make the world work, for 100% of humanity, in the shortest possible time, through spontaneous cooperation, without ecological offense or the disadvantage of anyone." In 2020, we have "At least 79.5 million people around the world that have been forced to flee their homes. Among them are nearly 26 million refugees, around half of whom are under the age of 18."

Our field of study is the world's largest refugee camp: Cox's Bazar in Bangladesh. About 1 million Rohingya was forced to flee genocide in Myanmar since 2017. In Cox's Bazar, the Rohingya face a complex number of challenges: access to drinking water, food, fragile shelter on land-slide prone terrain, sanitation, hygiene, and essential health and education services.

Based on existing need studies, students will work on: Gardening, Composting, Sustainable Toilets, Aquaponics, Rainwater harvesting (and synergy with land sliding in refugee camps), Cartography. Working in small groups, students will produce device prototype, instruments, and educational material. It is not about solving refugees' challenges, but bringing a new perspective and proposing ideas, design, and educational materials.

The course is being developed with and for actual refugees and experts - many of which will engage in live dialog with the students. Students will be supported to apply for grants to test the designs in Cox's Bazar during summer 2021 with our partners.

Assessment: 100% continuous coursework assessment

ARCH7278 Open Building in Transition (6 credits)

Open building is about architecture that connects to the pulse of life. It also the changes of design methodology in the request for sustainable future for the built environment. Open building is about an architecture that explicitly addresses – and meets with solutions - the challenges of change and continuity, and of individual and community responsibilities. This course investigates the concept and design strategies for everyday built environment characterized by changes and participatory in design. If change of use in stable form is normal – therefore let us distinguish which technical parts and spaces last

longer, and which will change or be replaced by parts performing the same function, to meet life in all its varieties and nuance. If no open designs everything – therefore let us understand and work with distributed design. This course consists of lectures, international forums, and workshops.

Assessment: 100% continuous coursework assessment

ARCH7279 Matter, Density and Projection (6 credits)

This course gives students the opportunity to understand, manipulate and design with the intangible notion of shadow, its modifying effect on architecture and its influence on how we perceive space. We will explore its potential as a design tool to translate, mold and simulate three-dimensional spatial embodiments to study Hong Kong's urban fabric with a different view. By tracing areas of various densities, a new vocabulary of spatial transformations is generated to test and learn about the significance shadow has on architecture and our sense of space. These investigations will be conducted using analogue and digital media by creating drawings and models, both through physical and digital technologies.

Thus, the elective aims to enhance abstract, analytical and spatial thinking skills, as well as gain knowledge of the impact on matter, density and projection in urban areas by developing another understanding of seeing, observing and processing the metamorphosis of dimensions and structures in the city.

Assessment: 100% continuous coursework assessment

ARCH7280 Territories of Spatial Rituals (6 credits)

This elective will focus on analysing and designing spatial rituals in leisure infrastructure and proposes to understand those territories from the scale of the human being. It will be a complement to the Elective course Inhabitable Territories that looks at the geographical scale and well as the Master Studio that focuses on the experience. Through case studies the students will learn to decoding behaviours and read spaces from the view point of activities as a base for a more holistic design approach.

Assessment: 100% continuous coursework assessment

ARCH7282 Urbanisation and Habitation (6 credits)

This course delves into the dynamic relationship between urbanization and habitation, offering students a thorough exploration of how architecture shapes and responds to the growth and evolution of urban environments. Through a combination of theoretical frameworks and practical applications, students will examine the complexities of urban planning, housing design, and community development. The content and topics of this course may vary year to year.

Assessment: 100% continuous coursework assessment

ARCH7401 Real Utopias (6 credits) ***cross-listed under Category I: History and Theory**

In Architecture, urbanism and all disciplines of design, ideas are mainly written, analysed, described and publicised through drawings. Such was the case with the drawings of, Hilberseimer (sectional), as well as Superstudio (3-dimensional speculative collage) and many others... Drawings are processes of understating, informing, speculating and projecting. They are a precise code to what they describe and what they propose. The city has been described through both very speculative (fictional) as well as very definitive (real) drawings throughout centuries. Oswald Matthais Ungers used the capacity of speculative

drawings as a unique type of description and projection of the realities of the city and not the city Utopia. This seminar will explore, investigate and cross-examine the modern history of representation of the city and its infrastructures through their projective potentials leading to better realities influencing the social/political, the cultural and the economic structures of our societies.

Assessment: 100% continuous coursework assessment

ARCH7402 Propositions for Planetary Living-II (6 credits)

Propositions for Planetary Living is an advanced seminar that aims to develop new approaches for cohabitating Hong Kong, based on the assumption that an affluent society knows how to live with/in its environment, and how to be sustainable both socially and environmentally.

Assessment: 100% continuous coursework assessment

CATEGORY III: TECHNOLOGY AND SUSTAINABILITY

ARCH7180 Topics in Architectural History and Theory (6 credits)

***cross-listed under Category I: History and Theory**

This course gives students the opportunity to further explore specific issues and topics in architectural history and theory. Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7265 Inter Cities (6 credits)

***cross-listed under Category V: Practice and Management**

Inter Cities will explore transitional areas that are about to undergo significant urban transformation either in terms of massive growth or shrinkage. Usually occupying peripheral territories on the edge of cities these areas display unique characteristics – they are anomalies, estranged and contradictory to normative planning methods. Their condition is patchy and often incoherent mixing landscapes, industrial wastelands, and pockets of residential enclaves. Their governance and control is often contested involving overlapping political and individual desires. As they are emergent they display conditions of urbanism that are un-tested and somehow prototypical providing clues to how the future of our cities may evolve. To this extent Inter Cities are at the forefront of contemporary urbanism. The course will examine the conflicting forces that shape these unique urban landscapes including economy, politics, globalisation, industry, environmental conditions and shifting cultural values. Classes will discuss theoretical texts, examine case study examples, debate key issues and introduce methodological research tools.

Assessment: 100% continuous coursework assessment

ARCH7330 Principles of Building (6 credits)

This course addresses the elemental aspects of building and the fundamental principles of structure. It will present building structures in masonry, timber, concrete, steel, glass and composite and examine the constructional possibilities and limitations of these materials. Furthermore, it will seek a broad-based understanding of how material and constructional choices are determined by its physical site, program, culture, era and environment. The course presents the historical culture of building technology and how material, structural, construction and detail decisions influence the overall architectural project. It will be further demonstrated how the importance of well-articulated geometries and proper means of

measurements in drawing and modeling are an essential and integral part of construction methods and processes. The course material will be presented through a series of lectures specific to a material and through analyses of relevant case studies.

Assessment: 100% continuous coursework assessment

ARCH7331 Introduction to Building Structures (6 credits)

The course aims to provide students with an appreciation and understanding of the behavior of both horizontal spanning as well as vertical structures. The relationships between load carrying mechanisms and various structural and architectural forms will be explored and case studies of significant structures of these types will be discussed and analyzed in relation to architectural planning and design processes. Structural aspects of site investigation, foundations and retaining structures will also discussed within the context of relevant case studies.

Assessment: 100% continuous coursework assessment

ARCH7332 Building Construction and Practice (6 credits)

This course has its focus on the connection of building technology with architectural design and practices. From the perspective of technology, it covers an overview of historical buildings, modern architecture, sustainability and professional practices such as stages of work, design drawings for contract documentation and control of details through building code. Various design principles as reflected in general conceptual design and detailing are explained with various reference to local and international examples.

Assessment: 100% continuous coursework assessment

ARCH7355 Designing Care in the Commons (6 credits)

From cattle overgrazing to climate change, rational economic individuals habitually act to maximize personal gain, consciously ignore the consequential depletion of shared resources, causing great harm to the entire community - evolution biologist Garrett Hardin (1968) elaborated on this phenomenon in his profoundly influential paper, the Tragedy of the Commons. The objective of this studio is to design a series of temporal-spatial interventions that could rescript these types of tragedy away from the commons. What needs to be in place to disrupt catastrophic externalities caused by individuals' endless self-serving interests, and to trigger a gearshift in momentum to foster community well-being towards an equitable and sustainable future? Can citizen-architect design site-specific-situational encounters that could generate ripple effects of mutual care in the commons?

Assessment: 100% continuous coursework assessment

ARCH7356 Nordic Latitudes (6 credits)

This is an introductory course to Scandinavian architecture, its history and the contemporary sphere. In the northern periphery nature's rule is absolute. Its architecture reflects an extreme consciousness of resources, a natural adaptation to harsh and challenging environment, and utilitarian civic ideals.

The course seeks to develop a deeper understanding of the architectural language and construction, addressing issues crucial to the contemporary understanding of space and architecture in the Nordic sphere.

The course will be presented as an anthology, discussing fundamental design principles embedded in the

psyche of the place, such as man's relationship to nature, past and present and homely interiors. Through lectures, archival research, precedent analysis and model-making, the course will examine local building traditions and explore a few of the ideas that dominated the means of architectural production in Scandinavia in the last 100 years. Local architects and experts will join us to give account on past and current trends of the practice.

Assessment: 100% continuous coursework assessment

ARCH7357 Impossible Architecture (6 credits)

In the current worldwide paradigm, design enters a new stage – that of environmental awareness, which aims to deal with the problems created by mankind so far. Thus, design loses its traditional elitist posture, demanding a more comprehensive, inclusive, and environmentally cautious approach.

Though technology has contributed heavily to the pollution and eventual damage of the natural world, it is now offering the possibility of redemption by rethinking not only how we design, but how we live. By having the capacity of controlling technology and not only succumbing to its power (as it has been the case since the industrial era), but architects can also use digital fabrication tools as an inherent component in the design workflow. Given this constant renewal of work components, new technology demanded new material – and one field which is emerging is that of bioplastics.

Bioplastics are materials produced from renewable biomass sources. This includes everything from food waste, natural waste, vegetable fats and oils, to recycled plastic or natural gas. There a multitude of bioplastic recipes available already, and more can be continuously discovered.

Assessment: 100% continuous coursework assessment

ARCH7358 Technology and Sustainability (6 credits)

This course explores the intersection of architectural technology and sustainability. Students may engage in hands-on projects, case studies, and collaborative workshops to develop skills in sustainable design practices and technological advancements. The course aims to equip future architects with the tools and knowledge necessary to create buildings that not only meet the functional needs of occupants but also contribute positively to the environment. By the end of the course, students will be prepared to address the challenges of modern architecture with sustainable and technologically advanced solutions. The content and topics of this course may vary year to year.

Assessment: 100% continuous coursework assessment

ARCH7360 Building Structures and Systems (6 credits)

The course is designed to close the gap between structural theory and design. The subject is divided into two parts. The first part highlights the more important aspects of the structural planning process from architects' point of view. The second, analytical part, develops candidates' skills through case studies of actual projects leading to a deeper understanding of the complexities of the structural problem. Topics such as building failures, structural alteration and additions, building regulations, geotechnics, foundations on difficult grounds and computer-aided structural design/analysis will be discussed.

The course provides an understanding of the realities of designing and manufacturing components of buildings within aesthetic, economic and time frameworks. Design construction communication is studied through production and technical drawings, manufacturer's shop drawings with special emphasis on the use of materials and manufacturing technology. Direct studies of manufacturing techniques both traditional and new are undertaken by field trips to factories and construction sites. Construction systems including the systems approach, standardized buildings, contractual strategies and their impact

on the evolution of building production are investigated.

Field trips to construction sites and design offices form an integral part of the course.

Assessment: 100% continuous coursework assessment

ARCH7361 Sustainable Building Systems (6 credits)

Advanced studies in innovative technologies are undertaken. Energy efficient and intelligent buildings are analysed and advances in parallel industries such as aerospace, shipbuilding and the transportation industries are studied for applicability in the building industry. Computer modelling is used extensively in this option. Total energy systems are investigated as are low environmental impact techniques.

Assessment: 100% continuous coursework assessment

ARCH7364 Nonspace: Materials, Processes, and Constructions (6 credits)

While space is the most distinguished objective of architecture, the boundaries and character of space are defined by elements of non-space: materials, processes, and constructions. This is the paradox of architecture. This course explores a conceptual framework for the environmentally responsive design of building assemblies, based upon a clear understanding of materials and their inherent processes and construction technologies. Building materials will be analysed and carefully drawn with emphasis on their physical and architectural properties, functions, and behaviour in manufactured and installed constructions. The design of building assemblies made from concrete, masonry, timber, steel, and glass will be examined in relation to the forces that shape their composition and performance.

Assessment: 100% continuous coursework assessment

ARCH7365 Design Research on Architecture and the Environment (6 credits)

***cross-listed under Category IV: Digital Media and Fabrication**

This course focuses on case studies and design experiments related to architecture and the environment. It foregrounds an understanding of the effects of architecture on its immediate environment, literally the environments that buildings create. This course will be conducted as a research seminar, the predominant mode of thinking, intellectual development and idea formation for the course is physical modelling and diagramming. Each week students will be required to do a series of readings and will work in teams to analyse two precedents through sectional models, drawings and diagrams. Students will study two precedents over the course of the entire semester devoting approximately a half a semester to each. Students will be asked to cull out specific design ideas from readings and associate them with sectional models and drawings for in class discussions and pin ups. Case studies, model making and prototypical modes of research will be used as a vehicle to discern specific disciplinary design techniques and strategies.

Assessment: 100% continuous coursework assessment

ARCH7375 Design After Nature (6 credits)

Our spatial and sensorial experiences are formed by design through cycles of environmental, material, cultural, political, and economic ecologies. Our “natural” environment is continuously being designed and defined by our engagement with Hyperobjects resulting a series of Subnatures and new conditions. This seminar will explore the theoretical propositions between architecture, landscape, art, and contemporary ecological theory. Students in this course will critique a series of texts, research, develop a

catalogue of sites, and examine a number of different works by various designers and artists. At the end of the course each student shall be responsible for a graphic essay dedicated to a specific site or theoretical position.

Assessment: 100% continuous coursework assessment

ARCH7376 Inhabitable Territories (6 credits)

Located on the ambiguous limits between the artificial and natural world, ski resorts and beaches inform us about human's contemporary relationships to the environment. With a series of territorial installations, a wide range of specialists has been articulating natural spaces in order to enable sensorial experience for the sake of leisure and fun. They have deeply modified the original settings and produced new forms of geography and landscape. The aim of this course is to reveal the underlying system at work by highlighting experiential, programmatic and infrastructural continuities. From an architectural point of view, we will interrogate the way these spaces are generated and the behaviour they produce.

Assessment: 100% continuous coursework assessment

ARCH7377 Concrete Approximations (6 credits)

This course exposes students to the physical act of making in architecture through dynamic structural logics and material testing, at scales of intervention larger than possible in the classroom. The objective is to prototype new types of structures, mostly using concrete as casting material, and engaging more closely with the material's unique properties: fluidity, pressure and weight. Students will be tooled up with a variety of form finding techniques and analogue formwork devices, through trial and error experiments. The initial research findings will be synthesized towards the construction of a full-scale and site-specific project exploring inventive fabrication processes of translating complex geometries to local building techniques.

Assessment: 100% continuous coursework assessment

ARCH7378 Topics in Architectural Technologies (6 credits)

This course gives students the opportunity to further explore specific issues and topics in architectural technologies. Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7379 Performative Envelopes (6 credits)

This course explores the history of membrane use in forms and architecture with a focus on the most recent developments being explored by architects, manufacturers, and scientists. While building on the canon of work that has been done with membranes in the past, students will explore the membrane as a medium, formwork, and environmental interface. Emphasis will be placed on the performative characteristics of membrane technology and architectural layering of various membrane technologies with respect to structural design methods. Membrane materials, PTFE, ETFE, plastics, foils, meshes, printing, laminating, and vacuum forming technologies will be explored relative to new potentials for spatial, structural, and environmental performance. Each student will design a membrane structure and build a prototype of a detail of their membrane.

Assessment: 100% continuous coursework assessment

ARCH7382 Floating Marine Laboratory (6 credits)

In this course, we will design innovative ocean science and entrepreneurship infrastructures. A floating laboratory for research and development to study the ocean and develop sustainable solutions for Hong Kong waters and the world.

The ocean is where all life comes from and our future depends on it. The ocean covers more than 70% of our planet's surface and absorbs most of the heat from the sun, therefore controlling earth's climate. But our oceans are mostly unexplored while being overfished, polluted with plastic, industrial and agricultural run-offs and radioactive substances. The ocean is suffering a rapid biodiversity decline without much general public awareness and more so lacking significant action to reverse this deadly trend.

Assessment: 100% continuous coursework assessment

ARCH7384 Deep Drawing (6 credits)

Based around the ambition of developing new tools to examine and plan the territory, students will engage with the transformative role of drawing as a way to investigate topographical and architectural conditions. The drawing will operate at a variety of scales, from the territorial, involving displaced and constructed geographies, to the intimate, looking at the processes of fabrication and manipulation of raw materials into building components. This methodology of drawing as a form of research puts forward the importance of assessing architecture through multiple scales beyond that of the building and various tangibilities. This approach will develop the student's capacity to be both a maker and a territorial agent, triggering an awareness of the designer's social and environmental responsibilities in relation to resources, past and living histories within the design process.

Survey drawing is our primary tool of investigation and the relationships between representational techniques, technology and the reading of the built environment are at the heart of our discussions. The survey encompasses many forms of drawing, from the technical to the speculative or the imaginary. The survey is not an illustration but a construct. The drawer builds on the knowledge gleaned from the survey to reveal what is hitherto unseen to the curious eye. To survey a condition is to reveal its essence, provoking a transformation that renders the first act of design. Each drawing evolves beyond the mere representation of a condition to become the repository of the drawer's findings. By making a survey the drawer 'draws oneself into place' finding points of departure to act and taking an active part in the future of a city or a territory.

Assessment: 100% continuous coursework assessment

ARCH7385 Building in Common (6 credits)

Building in Common proposes a practice of architecture that is more inclusive and sensitive to the world that already exists around us through Gibson's notion of affordance, of what the environment offers and the notion of complementarity. This course explores the relations between making and the material flows that link human and non-human actors and understand the design-build as an action comprising both material intervention and shared experience. This methodology puts forward the importance of assessing architecture through multiple scales beyond that of the building.

This collaborative methodology brings to both students and the communities, within which the course takes place, an understanding of architectural practice as one of identifying and acting upon existing potentials in an empathetic, inclusive, and considerate manner, taking into account the intricacies of society and the physical nature of living. The course will highlight and activate the potential agencies of different community groups through the identification of common goals for the city and for the land.

Assessment: 100% continuous coursework assessment

ARCH7403 Material History (6 credits)

This is a seminar about materials, their properties and embedded structural concepts. The seminar seeks to offer a space to reflect on the physical life of building matter and the invisible forces that govern us.

Looking back at the evolution of material invention in the construction practice, we will see to understand the basic principles that define and characterize the behaviour of objects (or systems) subjected to forces and what those forces themselves are.

Through short exercises and the analysis of several case studies, we will dive into the world of material science, exploring materials, not only as constructive matter, but as a generator of precise architectural thought.

Assessment: 100% continuous coursework assessment

ARCH7476 Generative Design in Architecture (6 credits)
***cross-listed under Category IV: Digital Media and Fabrication**

Generative Design in Architecture is a research seminar concentrating on the discoveries, applications, and critiques of emerging digital design technologies in finding architectural design solutions. In this course, different programming methods will be introduced as the drivers to navigate through five interdisciplinary fields that are increasingly entwined with architectural design. These fields include computational geometry, digital fabrication, simulation and analysis, sensing and 3D scanning, and artificial intelligence (AI). The goal of understanding these emerging technologies is to develop new design models that are transformed from human-centred solution describing processes to machine-centred solution searching processes. With the advances in today's computing technologies, such change will enable us to explore a broader solution space beyond the constraints of our empirical knowledge regarding geometries, materials, structures, and aesthetics. However, besides the enlarged solution space, it is more important to examine whether generative design processes could stimulate us to think efficiently, think differently, and think more creatively. Because in generative design processes, instead of being occupied by manipulating forms, designers have more freedom in defining and redefining design goals and criteria.

Assessment: 100% continuous coursework assessment

ARCH7563 Community Building Workshop (6 credits)
***cross-listed under Category V: Practice and Management**

The course intends to investigate issues in design and construction through hand-on experiences and involvements in an actual building process. By participating in the design and construction of various types of community projects including temporary or permanent installations, shelters or buildings, students are to explore the nature of materials and structure, methods in construction, as well as modes of fabrication and design media. The process also provides opportunities for students to interact and exchange knowledge with different stakeholders involving in the building process: users, contractors, managers and sponsors. The focus of task for each year may vary pending on the nature of project and resources available, but a commitment to the community and a team work spirit, as well as the appreciation of the tactile and tectonic quality in design will always be essential part for the course.

Assessment: 100% continuous coursework assessment

CATEGORY IV: DIGITAL MEDIA AND FABRICATION

ARCH7365 Design Research on Architecture and the Environment (6 credits)***cross-listed under Category III: Technology and Sustainability**

This course focuses on case studies and design experiments related to architecture and the environment. It foregrounds an understanding of the effects of architecture on its immediate environment, literally the environments that buildings create. This course will be conducted as a research seminar, the predominant mode of thinking, intellectual development and idea formation for the course is physical modelling and diagramming. Each week students will be required to do a series of readings and will work in teams to analyse two precedents through sectional models, drawings and diagrams. Students will study two precedents over the course of the entire semester devoting approximately a half a semester to each. Students will be asked to cull out specific design ideas from readings and associate them with sectional models and drawings for in class discussions and pin ups. Case studies, model making and prototypical modes of research will be used as a vehicle to discern specific disciplinary design techniques and strategies.

Assessment: 100% continuous coursework assessment

ARCH7406 Architects and their Chairs (6 credits)***cross-listed under Category I: History and Theory**

“The chair is a very difficult object... There are endless possibilities and many problems – the chair has to be light, it has to be strong, it has to be comfortable. It is almost easier to build a skyscraper than a chair.” - Mies van der Rohe

The chair materializes the way of living. From a ceremonial object symbolizing power before enlightenment, to a mundane utilitarian object associated with work in the industrial age, and eventually to what represents the contemporary lifestyle and personal identity, the chair provides a sectional view of the modern life. Architects’ chairs particularly, charged with ideas also manifested in their houses, are statements of their vision toward domestic living.

Yet such statements are achieved through evolution, not revolution. Looking back at the lineage of Danish tradition in furniture design, whose many components grew out of Chinese Ming chairs, one may be able to understand how a classical form that originated in one culture could be altered and adapted to another. The perspective toward design as an evolutionary process constitutes the methodology of this workshop, believing that innovation is not to break up with history, but accomplished through exhaustive and iterative development from a precedent.

Assessment: 100% continuous coursework assessment

ARCH7460 Computer Graphics for Architects (6 credits)

Through a series of exercises, presentations, and discussions, the course will investigate the evolving relationship between architecture and its means of representation, as well as broader issues of technology, information, and culture. While the course will explore the impact of computing technology on the representation of architecture, it will also provide a firm understanding of some of the software required to do so.

Assessment: 100% continuous coursework assessment

ARCH7462 Computer-Aided Architectural Design Methods (CAAD Methods) (6 credits)

A study of current computer techniques and technologies which can be used by architects to develop design methods that fully exploit contemporary computers as design aids.

Assessment: 100% continuous coursework assessment

ARCH7465 Digital Media and Methods (6 credits)

This course provides a comprehensive introduction for Masters students to three-dimensional digital media and methods for architects. The focus of the course is on the application of relevant software packages towards design, analysis, fabrication, and documentation, emphasising topics as the controlled modelling of complex form and the rationalization non-planar geometries. The goal of the class is to bring Masters students with basic skills in the use of software for architects quickly up to speed with essential tools and processes.

Assessment: 100% continuous coursework assessment

ARCH7466 Parametric Structures (6 credits)

This research seminar will examine the concept of parametric systems and their applications in and implication on architecture. Through a series of lectures and guided design exercises students will be introduced to the theoretical background and logic of parametric systems and the generation of them in the digital environment. Historical building precedents of specific architectural typologies will be examined to open up a critical dialogue between existing physical constraints and the digital realm. Different design techniques will be studied and deployed in order to generate several parametrically driven prototypes that have the capacity to form innovative architectural structures.

Assessment: 100% continuous coursework assessment

ARCH7467 Making Ways and Ways of Making (6 credits)

One to one design is not an issue of how large a physical output becomes but rather how the properties of real materials are vigorously experimented with at any particular scale. The seminar will strive to bring forward inventive means of making that engage material behaviours in response to external forces at work while remaining receptive to its investigated scale. Making ways for such prototypes will address the necessity to construct intermediary frameworks which will become an integral part of the making process. This workshop-based seminar, supported by a series of lectures, will encourage students to explore procedural logics of making that expand on and revisit initial design premises from a series of physical explorations at incrementing scales. Each scale of investigation will have its own design focus and will inform the overall conception of a collective design-built project realized by the students near the end of the course. The core ideology is to influence the process of architectural design in reverse; that is by synthesizing an architectural proposal from the findings emerging out of a succession of well-crafted experiments.

Assessment: 100% continuous coursework assessment

ARCH7469 Explorative Architecture Techniques (6 credits)

The profound embedding of advanced digital and information-based tools in all aspects of explorative architectural practices has caused a radical revolution in contemporary design techniques. By combining case studies of today's leading architects with tutorials on advanced 3D modelling, parametric and algorithmic design methods (scripting), this course investigates the use of digital design techniques in the

translation of geometries into built form. The aim is to gain an understanding of the geometric challenges, material possibilities and limitations faced with when working within this new paradigm.

Assessment: 100% continuous coursework assessment

ARCH7470 Architecture By Nature (6 credits)

Architecture By Nature evolves autonomously from its users and engages with the dynamic complicity between built projects and processes in nature. It is less concerned with environmental compliance and more with the productive collision between architecture and nature: landward, seaward and skyward. We will study intentions from ideal and elementary architectural precedents throughout history. These case studies are grafted in and wrought by extreme environments and will offer a platform from which students will develop their own project. Time based procedures will be introduced as a mean to register physical transformations in the natural environment. We will seek to create specific architectural prototypes that without dependence on nature would simply become generic; instruments taking on the active and physical role of measuring spatially the changing nature of environmental force, otherwise intangible. The essential question for the seminar is: “How does the architect project adaptively and in complicity with such evolving physical and spatial environments?”

Assessment: 100% continuous coursework assessment

ARCH7471 Material Fabrications (6 credits)

This course is an intensive workshop involving in depth field research in the topic of fabrication.

Assessment: 100% continuous coursework assessment

ARCH7472 Topics in Advanced Technology (6 credits)

In Site of Erasure students will create short films in order to specifically persuade an audience of a precise architectural position. Through a series of lectures, discussions, presentations, and filmic exercises, the course will investigate the relationship between architecture and film, as well as broader issues that arise when information and socio-political concerns intertwine.

Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7473 Advanced Computational Methods for the Future of Design and Construction (6 credits)

In this course, we will envision how new technologies will change the future of construction and fabrication and in turn, change design. We will first explore concepts of traditional concrete and steel construction. With that background, we will investigate the key design issues which may be solved/caused as 3D Printing and Robotic construction technologies enter the market and the computational methods required for these types of design situations. Through simple projects and case studies, we will learn to appreciate traditional hierarchies of design information but then, we will change the hierarchy of design to explore non-traditional hierarchies. Using computational techniques from the cutting-edge of the industry, we shall encode these hierarchies to exploit the power computation to rapidly explore the design spaces, using insights from data to drive interesting and futuristic designs.

Assessment: 100% continuous coursework assessment

ARCH7474 Structural Research – Gridshells (6 credits)

This course specialises in the design and construction of doubly curved grid structures. Through analysis of existing structures and innovative research of independent hypothesis, students will become experts in the field of strained gridshells, discovering new potentials for digital design and fabrication.

The course aims to install a methodology of research-by-design, fostering self-responsible, creative research based on well-founded scientific principles. These principles will be taught through theoretical inputs, hands on workshops, model making and digital modelling of reference structures. The class will acquire the ability to use Rhinoceros, Grasshopper as a digital 3D environment to explore and design complex structures, and Kangaroo and Karamba, to conduct form finding and structural analysis tasks, and digital manufacturing to fabricate and construct meaningful prototypes.

Assessment: 100% continuous coursework assessment

ARCH7475 Visual Practices (6 credits)

The course will explore the use of drawing and visualization as a critical tool for design. Students will experiment with a range of illustrative media and techniques representative of both traditional and emerging design approaches and expand on their ability to work across digital and analogue media. Tutorials will be given in a range of techniques and applications. In-class lectures and tutorials will be supplemented by discussions inspecting relevant drawings and visualizations, their authors and if applicable, the issues that defined their work. A series of iterative drawing and visualization exercises will structure the course. These will be shared and discussed during class. Students are expected to have basic drawing and visualization skills, be able to undertake visual research and produce visual narratives.

Assessment: 100% continuous coursework assessment

ARCH7476 Generative Design in Architecture (6 credits)

***cross-listed under Category III: Technology and Sustainability**

Generative Design in Architecture is a research seminar concentrating on the discoveries, applications, and critiques of emerging digital design technologies in finding architectural design solutions. In this course, different programming methods will be introduced as the drivers to navigate through five interdisciplinary fields that are increasingly entwined with architectural design. These fields include computational geometry, digital fabrication, simulation and analysis, sensing and 3D scanning, and artificial intelligence (AI). The goal of understanding these emerging technologies is to develop new design models that are transformed from human-centred solution describing processes to machine-centred solution searching processes. With the advances in today's computing technologies, such change will enable us to explore a broader solution space beyond the constraints of our empirical knowledge regarding geometries, materials, structures, and aesthetics. However, besides the enlarged solution space, it is more important to examine whether generative design processes could stimulate us to think efficiently, think differently, and think more creatively. Because in generative design processes, instead of being occupied by manipulating forms, designers have more freedom in defining and redefining design goals and criteria.

Assessment: 100% continuous coursework assessment

ARCH7477 3D Printed Matter (6 credits)

In recent years 3D printing has made its way into the building industry. While the technology is still in its infancy, the profession has witnessed the first prototypes in different parts of the world. As the city of

Dubai alone expects to utilize the technology for more than 25% of all buildings built by 2030, some players within the profession anticipate that the technology will revolutionize the production of architecture. Technology in the building industry is often driven by efficiency and economic factors but rarely by creativity. At the beginning of the 2020s, the world is confronted with pressing issues. As architects, we must ask, what are the advantages of these new ways of making? Can the technology solve issues we could not address previously? Are we merely replacing old ways of making with new ones without asking the right questions? The course will address these questions and will introduce students to the technologies related to 3D printing in the Robotic Fabrication Lab at HKU.

Assessment: 100% continuous coursework assessment

ARCH7478 Bending Bamboo Rules (6 credits)

The combination of bamboo construction and digital design technology enables radically unique and spatially versatile architectural solutions rooted in local culture and sustainable building practices.

Design research course “Bending Bamboo Rules” builds on earlier fundamental research on the digital design and implementation of bending-active bamboo shell structures and expands its concept design methods, leading to more diverse design outcomes. The course combines research in architectural design with digital physics-simulation engines and prototyping for low-tech, lightweight construction systems and uses demonstrator design studies as proof of concept.

Bamboo is a material of high environmental and socio-cultural importance. It is one of the fastest growing, widely available, low-cost, carbon-sequestering natural resources suitable for direct implementation in construction. It has globally been part of vernacular construction for centuries. Expanding its design solution space with contemporary answers will positively impact the development of the built environment.

Bending-active shells are amongst the most material-efficient, hyper-lightweight structures. They rely for strength and construction implementation on the overall geometrical double curvature and elastic bending properties of their components. Their nonstandard geometries provide unique spatial design opportunities, and their material efficiency results in a reduced need for natural resources. This course’s outcome will illustrate that a wider and spatially more versatile and practically applicable solution space exists for this eco-friendly mode of construction.

Assessment: 100% continuous coursework assessment

ARCH7479 Temporary Site-Specific Installation (6 credits)

This class will involve thinking with materials, mixed-media exercises, and the formation of large-scale creative concepts through small-scale experiments and temporary constructs. We will explore ways in which traditional handwork, and material knowledge can be extrapolated into site-specific installations, spatial interventions and physical interactions with place and matter. This course merges the history of craft and technology, with hands-on making and archival research to create a series of projects designed to build deeper structural understanding of the materials and what is possible.

Assessment: 100% continuous coursework assessment

ARCH7480 Transfer - Structural Transformations (6 credits)

The course adopts an experimental approach to physical models and structural understanding, exploring how we use models in architecture as a tool to test and innovate on structural principles. This course is giving the students an opportunity to deepen their understanding of high-rise structures, structural design and structural load transfer.

Students will learn about the general principles that underlie in high rise buildings and the major challenges that lie within structural load transfer. The course will give plenty opportunities to analyse existing buildings, experiment with structural principle and apply the knowledge to design solutions.

Assessment: 100% continuous coursework assessment

ARCH7481 Prototyping Play (6 credits)

The course aims to serve as a platform for the design and implementation of environments for play. In the context of the course, an environment for play will be understood as a formal and spatial configuration intended to host or facilitate recreational activity. The course will inspect and dissect precedent play structures and play objects in order to collectively create a catalog of various configurations. A process of ideation will follow, with the aim to create new designs through the sampling and combination of precedent configurations.

Assessment: 100% continuous coursework assessment

ARCH7482 Digital Media and Fabrication (6 credits)

This course explores the intersection of digital technology and creative expression. By the end of the course, students will have gained an understanding of digital media production and fabrication methods, as well as the skills needed to create compelling multimedia projects. The content and topics of this course may vary year to year.

Assessment: 100% continuous coursework assessment

CATEGORY V: PRACTICE AND MANAGEMENT

ARCH7265 Inter Cities (6 credits)

***cross-listed under Category III: Technology and Sustainability**

Inter Cities will explore transitional areas that are about to undergo significant urban transformation either in terms of massive growth or shrinkage. Usually occupying peripheral territories on the edge of cities these areas display unique characteristics – they are anomalies, estranged and contradictory to normative planning methods. Their condition is patchy and often incoherent mixing landscapes, industrial wastelands, and pockets of residential enclaves. Their governance and control is often contested involving overlapping political and individual desires. As they are emergent they display conditions of urbanism that are un-tested and somehow prototypical providing clues to how the future of our cities may evolve. To this extent Inter Cities are at the forefront of contemporary urbanism. The course will examine the conflicting forces that shape these unique urban landscapes including economy, politics, globalisation, industry, environmental conditions and shifting cultural values. Classes will discuss theoretical texts, examine case study examples, debate key issues and introduce methodological research tools.

Assessment: 100% continuous coursework assessment

ARCH7405 Research on Participatory Design in Architecture (6 credits)

Although “Participatory Design” and “Public Engagement” are terms which appear more and more often in contemporary architectural discourse, little research has been done regarding to this methodology.

While related fields like urban planning and social studies have substantial literature and theories on wider social participation. This course is an action-research on the topic of participatory design in architecture. By collaborating with a local NGO, students are invited to design a mobile street kiosk in Kowloon City with the engagement of local communities. The methodology and effectiveness of participatory design will be the main focus and how architects can use different engagement tools to achieve a more comprehensive design outcome will be explored in this course.

Assessment: 100% continuous coursework assessment

ARCH7560 Aspects of Contract Management (6 credits)

Detail analysis and studies of standard contracts and sub-contracts for public and private works in Hong Kong. Practical problems in contract administration and project management, the cooperation and partnering of the architect, project manager and the contractor will be examined. Claims, counter-claims, mediation and arbitration will be considered.

Assessment: 100% continuous coursework assessment

ARCH7561 Principles and Practices of Building Codes (6 credits)

The course covers the area of Building Control in detail. The principles, practices and applications of the Building Codes, including the Buildings Ordinance, Building Regulations, Codes of Practices, and Practice Notes for Authorized Persons, will be extensively discussed and explained. Lectures will be supplemented with case studies involving projects in local architectural practices.

Assessment: 40-60% continuous coursework assessment and 40-60% written examination

ARCH7563 Community Building Workshop (6 credits)

***cross-listed under Category III: Technology and Sustainability**

The course intends to investigate issues in design and construction through hand-on experiences and involvements in an actual building process. By participating in the design and construction of various types of community projects including temporary or permanent installations, shelters or buildings, students are to explore the nature of materials and structure, methods in construction, as well as modes of fabrication and design media. The process also provides opportunities for students to interact and exchange knowledge with different stakeholders involving in the building process: users, contractors, managers and sponsors. The focus of task for each year may vary pending on the nature of project and resources available, but a commitment to the community and a team work spirit, as well as the appreciation of the tactile and tectonic quality in design will always be essential part for the course.

Assessment: 100% continuous coursework assessment

ARCH7564 Building Information Modelling in Architectural Practice (6 credits)

BIM technology is more and more often adopted in architectural practices throughout the world as the main tool for design, managing and documenting projects. Successful implementation of BIM for day to day work in an office and taking most advantage of the technology requires proper configurations, methodologies and standards. Without such structured approach and without applying best practices developed by the industry, BIM may easily become more of a problem than a solution. BIM technology allows integration within one project database of Architecture, Structure, MEP (Mechanical, Electrical, Plumbing) and others to create a complete virtual model of a future building. Such a model is like a living entity, constantly updated throughout the design process and later during the building lifetime. In

various stages of this lifetime a BIM model can be used for many purposes from scheduling and calculating areas, curtain wall costing, outputting documentation, performing thermal analysis to managing tenants and security issues in the field of building maintenance. Achieving those goals requires understanding of capabilities and limitations of the technology in very practical aspects, but also orientation in prospects and future opportunities for BIM.

Assessment: 100% continuous coursework assessment

ARCH7565 Introduction to Building Information Modelling and Management (6 credits)

BIM technology is changing and will continue to change the face of architectural profession. It influences all stages of design and project management and aims to integrate within one database Architecture, Structural Design, MEP (Mechanical, Electrical, Plumbing) and others. This database, which contains a 3D model of a building, formal project documentation and other information is a dynamic object, constantly updated throughout the whole design process and building lifetime. In any stage of the project it may be a source of invaluable, up-to-date information about building parameters and physical performance, which would be difficult or expensive to obtain using traditional methods. Such data can help the architect to make more informed decisions at earlier stages of design, which greatly reduces costly changes and errors. The objective of this course is to familiarize students with basic ideas and applications of BIM technology using the most widely adopted BIM software package, Revit Architecture. Examples used for this purpose during the course will be based on real projects and case studies, which count themselves among the most complex and innovative in terms of design, modelling approach and project management.

Assessment: 100% continuous coursework assessment

ARCH7566 & ARCH7567 Topics in Practice and Management I & II (6 credits each)

Architects & Money takes on an often controversial and frequently shunned topic in the architectural profession – money – and all the messy baggage that accompanies it. Purposefully positioned to bridge the divide between architecture and development, this course will offer practical knowledge on how the world of real estate investment and development really works, and simultaneously question the definition of the value of design. The course will also look deeper into the role of the architect in today's global cities and why understanding the financial risks of development – indeed being able to manipulate and mitigate such risks – positions the architect to play a more determinate role in the game and at long last, *grab a piece of the action*. Sessions are envisioned to alternate between seminar-style presentations and more interactive workshops/case studies. A working knowledge of Excel is a course requirement.

Topics change from year to year based on course contents.

Assessment: 100% continuous coursework assessment

ARCH7568 Design Practice Field Workshop (6 credits)

This course is an intensive workshop involving in depth field research in the topic of design practice.

Assessment: 100% continuous coursework assessment

ARCH7569 Materials, Services and Structure – A Comprehensive Study (6 credits)

This course concentrates on understanding and applying the principles of building structures, building materials and construction technology, environmental controls and building services, in an advanced level of integrated architectural design, geared to the local context. For building materials and

construction technology, the emphasis is on the performance criteria and applications of building materials, components and systems of construction. For building structures, the emphasis is on structural schemes systems relating to local building regulations and codes. For environmental controls and building services, the emphasis is on local regulations and codes, and coordination of services for heating, ventilation, air-conditioning, fire safety, plumbing and drainage, electrical, lift and escalators, etc.

Assessment: 100% continuous coursework assessment

ARCH7570 Project Management by Architect (6 credits)

Architects, the “lead consultants”, are often faced with different challenges during their professional life. Apart from being the creative masters of the building design, they also take up the important roles of steering and implementing the project to meet the programme, codes, budget and desired quality. Successful realization of the project therefore not only requires a wealth of versatile professional knowledge but also leadership of high calibre in project management.

This course aims to explore from a practical perspective on how an Architect should approach the management of a building project at various stages from inception to completion. The Architect’s roles in formulation of project programme, compliance with Building Codes, contract administration, and cost control, etc. will be discussed in detail. It will also include a discussion of the soft skills of project management which is another essential element to success through maintaining good working relationships with the team. Discussions by means of critical analyses of case studies and hypothetical situations will be the focus of the course.

Assessment: 100% continuous coursework assessment

ARCH7571 Practice and Management (6 credits)

This course provides a practical exploration of the multifaceted role of an architect. Through a combination of theoretical lectures, case studies, and practical workshops, students will gain the skills necessary to navigate the complexities of modern architectural practice. The content and topics of this course may vary year to year.

Assessment: 100% continuous coursework assessment

ARCH7573 Architecture as Construction in Hong Kong (6 credits)

Constructions in Hong Kong are at an industrial scale with hundreds and thousands of people on site in any single working day. The complexity of organization, logistics, site safety, quality control and coordination of different trades is beyond textbooks of any kind. Architect need to work closely with contractor to get the building built. Students will be visiting sites in Hong Kong at different stages of construction to understand the workflow and major critical activities.

This elective provides a glimpse into the challenges that the architect and the construction team face together, such as how to build consensus, how to prioritize, how to overcome deadlines and most importantly how to work with each other as a team.

Fieldtrips to fabricators such as curtain wall manufacturer, precast factory may be required.

Assessment: 100% continuous coursework assessment
