

**SYLLABUSES FOR THE DEGREE OF
BACHELOR OF ARTS IN ARCHITECTURAL STUDIES
[BA(ArchStud)]**

These syllabuses are applicable to candidates admitted under the 3-year curriculum to the first year of the Bachelor of Arts in Architectural Studies in 2012-13.

Students entering the 3-year Bachelor of Arts in Architectural Studies curriculum in the academic year 2012-13 will take a professional core of 159 credits (including 153 credits of core courses and 6 credits of a disciplinary elective course), plus a total of 21 credits in language and Common Core courses, totalling 180 credits for the 3-year curriculum.

The syllabuses of the Bachelor of Arts in Architectural Studies shall comprise the following requirements:

University Requirements

21 credits of compulsory University requirements which must be completed successfully:

Two 3-credit courses in English language enhancement; and one 3-credit course in Chinese language enhancement ¹	9 credits
Two 6-credit courses in the Common Core Curriculum with not more than one course from one Area of Inquiry	12 credits

Professional Core of Architectural Studies

The Architectural Studies curriculum has five types of courses which are taught using distinct learning modes. These are: Design Studios, Architectural History and Theory, Technology, Visual Communications and Disciplinary Elective courses.

All courses are 6 credit courses with the exception of the Design Studios which are 12 or 15 credits. All Design Studios and the majority of Architectural History and Theory, Technology, and Visual Communications courses are offered in two parts with Part I running in the first semester and Part II running in the second semester of a single academic year. This split is designed so that the knowledge and skills learnt in each course can be directly related to concurrent project work in the Design Studio course, to allow a more specific and structured approach to student learning.

The Design Studio and Visual Communications courses are assessed through 100% continuous coursework assessment. Courses on Architectural History and Theory, and Technology are assessed through combinations of continuous coursework assessment and

¹ Putonghua-speaking students should take CUND0002 or CUND0003. Students who have not studied Chinese language during their secondary education / who have not attained the requisite level of competence in the Chinese language to take CARC1001 can apply (i) to take credit-bearing Cantonese or Putonghua language courses offered by the School of Chinese especially for international and exchange students; OR (ii) to be exempted from the Chinese language requirement and take an elective course in lieu.

examination.

Architectural Design Studio Courses (12 and 15 credits requiring approximately 360 and 450 hours of student learning activities per course). Each of the studio courses is a semester course.

These courses engage students, under staff guidance and supervision, through a range of problem-based design exercises addressing core and related issues essential to the training of an architect. The studio projects provide opportunities to apply key architecture theories and concepts learned in concurrent courses.

Teaching is conducted in lectures / workshops / review sessions (total of 96 hours of student learning activities), and involves working on projects in both group and individual formats. Work is regularly presented and discussed in critical review sessions. Site visits, data research and practical workshops are required. The courses are assessed on the portfolio of project work produced, as well as contributions to discussions and activities in the studio sessions. Assessment is 100% continuous coursework assessment of drawings, diagrams, photos, renderings, animations, physical models, prototypes and project presentation (up to 5,000 words for the whole course).

ARCH1025	Introduction to Architectural Design	(12 credits)
ARCH1026	Architectural Design 1	(12 credits)
	(Pre-Requisite: Introduction to Architectural Design)	
ARCH2047	Architectural Design 2	(12 credits)
	(Pre-Requisite: Architectural Design 1)	
ARCH2048	Architectural Design 3	(12 credits)
	(Pre-Requisite: Architectural Design 2)	
ARCH3045	Architectural Design 4	(12 credits)
	(Pre-Requisite: Architectural Design 3)	
ARCH3046	Architectural Design 5	(15 credits)
	(Pre-Requisite: Architectural Design 4)	

Architectural History and Theory courses

Collectively these courses examine the theories and practice of architecture through a comparative study of the history of architectural design and urbanism, in various geographic and cultural contexts. Teaching is conducted in lectures / workshop / review sessions (24 - 36 contact hours per course), and the course work includes reading of critical texts, site visits, research, case studies and the preparation of assignments, essays and reports. Work is regularly presented and discussed in critical review sessions. The courses are assessed through a combination of continuous coursework assessment and examination. Continuous assessment is usually by various methods including PowerPoint presentation, reports (up to 10,000 words), short essays (1,500 - 2,000 words), quizzes, projects and/or sketch books.

ARCH1024	Architectural History and Theory 1	(6 credits)
ARCH2049	Architectural History and Theory 2	(6 credits)
ARCH2050	Architectural History and Theory 3	(6 credits)
ARCH3047	Architectural History and Theory 4	(6 credits)

ARCH3048 Architectural History and Theory 5 (6 credits)

Technology courses

The Building Technology courses explore issues of materials, construction, structures and environment as they relate to the built environment. Particular emphasis is placed upon overarching concepts of environmental sustainability and ecological design in all courses. The curriculum examines state-of-the-art “high” technology in combination with comparative studies of vernacular “low” technological practices of construction. Students are equipped with a global understanding of divergent technological practices found in numerous regionally specific conditions. The courses establish key technical concepts and knowledge that underpin students’ architectural design work. Much of the course relates to projects undertaken in the design studios. Teaching is conducted in lectures / workshops / review sessions (24 - 36 contact hours per course), and activities include site visits, case studies, practical demonstrations, detailed design exercises and the preparation of assignments and reports. The courses are assessed through a combination of continuous coursework assessment and examination. Continuous assessment is usually by various methods including homework, group work, quizzes, group projects, assignments, integrated coursework, presentation, and individual study. The usual output mainly comprises annotated diagrams and short written descriptions (up to a total of 5,000 words for the whole course).

ARCH1019	Building Technology 1	(6 credits)
ARCH2051	Building Technology 2	(6 credits)
ARCH2052	Building Technology 3	(6 credits)
ARCH3069	Building Technology 4	(6 credits)
ARCH3070	Building Technology 5	(6 credits)

Visual communications

These courses introduce students to the essential tools of design communication, and teach the fundamentals of graphic design as a means to describe space visually. Students learn freehand drawing, computer aided drafting, physical model building and 3D computer modelling. They investigate approaches and techniques to manage, manipulate, and envision information, using a variety of computer software to link photography, drawing, and other media.

Teaching is conducted in lectures / workshops / review sessions (24 - 36 contact hours per course), and activities include case studies, practical exercises, demonstrations, and the preparation of assignments and reports. The courses are assessed through submitted course work. Assessment is 100% continuous coursework assessment of drawings, diagrams, photos, renderings, animations, physical models, prototypes and project presentation (up to 5,000 words for the whole course).

ARCH1020	Visual Communications 1	(6 credits)
ARCH2045	Visual Communications 2	(6 credits)
ARCH2053	Visual Communications 3	(6 credits)

Disciplinary Electives

(6 credits requiring approximately 120-180 hours of student learning activities per course).

Disciplinary electives offer students the opportunity to gain advanced knowledge in a chosen area of study. The topics offered fall within the categories of:

Category I: History and Theory

Category II: Urbanism and Habitation

Category III: Technology and Sustainability

Category IV: Digital Media and Design Computation

Not only will students receive specialized knowledge through lectures, they will also acquire knowledge through research methodologies, as well as interactive learning and active engagement. The themes of these courses will cover contemporary and emergent issues.

Category I: History and Theory

ARCH5107 Vernacular Architecture of Asia (6 credits)

ARCH6220 Research Seminar in Visual Cultures (6 credits)

ARCH7120 The Genealogy of Contemporary Paradigms (6 credits)

ARCH7122 Topics in Architectural History and Theory (6 credits)

ARCH7123 Buddhism and Architecture: a Historical Perspective (6 credits)

Category II: Urbanism and Habitation

ARCH5110 Topics in Urban Studies (6 credits)

ARCH7220 Case Studies of Urban Development in Hong Kong (6 credits)

Category III: Technology and Sustainability

ARCH5303 Sustainable Building Systems (6 credits)

ARCH7301 Sustainable Design Methods (6 credits)

ARCH7302 Topics in Advanced Structures (6 credits)

Category IV: Digital Media and Design Computation

ARCH5302 Computer Graphics for Architects (6 credits)

ARCH5305 Computer-aided Architectural Design Methods (CAAD Methods) (6 credits)

ARCH5311 Digital Media and Methods (6 credits)

First Year of Study

[First Semester courses]	
- Introduction to Architectural Design	(12 credits)
- Visual Communications 1	(6 credits)
- Building Technology 1	(6 credits)
- English Language Enhancement course	(3 credits)
- Chinese Language Enhancement course	(3 credits)
[Second Semester courses]	
- Architectural Design 1	(12 credit)
- Architectural History and Theory 1	(6 credits)
- 2 Common Core courses	(12 credits)
- English Language Enhancement course	(3 credits)

Second Year of Study

[First Semester courses]	
- Architectural Design 2	(12 credits)
- Visual Communications 2	(6 credits)
- Building Technology 2	(6 credits)
- Architectural History and Theory 2	(6 credits)
[Second Semester courses]	
- Architectural Design 3	(12 credits)
- Visual Communications 3	(6 credits)
- Building Technology 3	(6 credits)
- Architectural History and Theory 3	(6 credits)

Final Year of Study

[First Semester courses]	
- Architectural Design 4	(12 credits)
- Building Technology 4	(6 credits)
- Architectural History and Theory 4	(6 credits)
- Disciplinary Elective	(6 credits)
[Second Semester courses]	
- Architectural Design 5	(15 credits)
- Building Technology 5	(6 credits)
- Architectural History and Theory 5	(6 credits)

Year 1
Semester 1

ARCH1025 Introduction to Architectural Design (12 credits)

Introduction to Architectural Design is the first in a two-course sequence forming a comprehensive introduction to the foundation studies of architecture, addressing the core and related issues essential to the training of an architect. The course aims to teach architectural literacy, to develop critical and analytical skills, to enhance visual, spatial and ideological sensibilities with certain emphasis on the presentation of ideas, concepts, and design both in the visual and verbal format. Field trips form an integral part of the course.

Assessment: 100% continuous coursework assessment

ARCH1019 Building Technology 1 (6 credits)
Environmental Science and Engineering in Architecture

This course addresses the fundamental issues and elements of environmental science and engineering integrated into architecture. It aims to develop an understanding of the broad spectrum of technologies and materials available to the architect as well as provide basic insight into the science that underpins them. The basic principles of science and engineering within the context of architecture and the design process will be discussed, through lectures, site visits, case studies.

Assessment: 50% continuous coursework assessment and 50% examination

ARCH1020 Visual Communications 1 (6 credits)
Representational Forms and Methods

Visual Communications 1 relates the study of architecture to the study of representational forms and methods. Taught through lectures that introduce fundamentals of visual communication including: grid, line, perspective, movement studies, projection, and composition, the course is a preliminary immersion in the culture of visual studies. Visual Communications 1 also provides students with basic skills and techniques (in freehand drawing, 2D and 3D CAD drawing, laser cutting, model making, Illustrator and Photoshop software) which allow the students to experiment with many of the issues and ideas introduced. Students will be responsible for individual projects which exhibit their grasp of the lecture topics.

Assessment: 100% continuous coursework assessment

CAES1101 Communication Course for Architecture Students (3 credits)

This course provides Architecture students with an opportunity to enhance their linguistic range specifically in describing buildings. The use of terminology is the focus both in short writing tasks and oral presentations. Aspects of presentation skills are practiced and developed using small-group project work and extensive use is made of videotaping for feedback.

Assessment: 100% continuous coursework assessment

CARC1001 Practical Chinese Language Course for Architecture Students (3 credits)

As a compulsory subject for students of Architecture, Chinese Language for Architecture (CARC) is different from the general Chinese training. The course comprehensively focuses on wide-ranging practical writing training, communication skills enhancement as well as the cultivation of literature sensibility and aesthetic quality.

The course pattern will be in the form of traditional lecture and tutorials plus various field trips, workshops and other learning experiences.

1. Comprehensive training of overall language skill including oral communication, grammar, practical writing and Chinese characters.
2. Nurture the ability of critical thinking, creative writing and debate in Chinese.
3. Enhance the appreciation of Chinese literature and calligraphy aesthetics.

Assessment: 50% continuous coursework assessment and 50% examination

Year 1 Semester 2

ARCH1026 Architectural Design 1 (12 credits)

Architectural Design 1 is the second in a two-course sequence a comprehensive introduction to the foundation studies of architecture, addressing the core and related issues essential to the training of an architect. The course aims to teach architectural literacy, to develop critical and analytical skills, to enhance visual, spatial and ideological sensibilities with certain emphasis on the presentation of ideas, concepts, and design both in the visual and verbal format. Field trips form an integral part of the course.

Assessment: 100% continuous coursework assessment

Prerequisite: ARCH1025 Introduction to Architectural Design

ARCH1024 Architectural History and Theory 1 (6 credits) Modern Architecture

This course examines the history of modern architecture, from the apex of the Industrial Revolution 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 two key influences in the development of modern architecture: the key material changes brought about by technology and industrialization as well as received ideas of progress stemming from the utopian legacy of the Enlightenment. This course raises major disciplinary questions, themes, and issues that

will reverberate throughout the subsequent Architectural History and Theory curriculum. Content will focus primarily upon the European avant-garde, though parallel architectural developments in both North America and Asia will also be covered.

Assessment: 100% continuous coursework assessment

CAES1105 Communication Course for Architecture Students (2) (3 credits)

This English-in-the-Discipline course follows on from the Semester 1 communication skills course by providing students with further opportunities to enhance their linguistic range specifically in their approach to architectural literacy. Students learn how to analyse architectural readings and texts critically and to engage in focused discussion and debate on related issues. This course also aims to raise students' awareness of cohesion and coherence in formal writing.

Assessment: 100% continuous coursework assessment

Two Common Core courses (12 credits)

**Year 2
Semester 1**

ARCH2047 Architectural Design 2 (12 credits)

Architectural Design 2 is the first in a two-course sequence that focuses on environmental and spatial considerations with emphasis on the integration of building technology in design and the use of digital media in conceptualizing and presenting design ideas. The course aims at developing both an awareness of architecture within a community environment and an ability to apply architectural language in design. A study of a community will be made paying particular attention to its architectural character and context. This study, which includes basic site survey, will form the basis of ensuing design projects, sketch designs and field studies. Field trips form an integral part of the course.

Assessment: 100% continuous coursework assessment

Prerequisite: ARCH1026 Architectural Design 1

**ARCH2045 Visual Communications 2 (6 credits)
Visual Content**

Visual Communications 2 focuses on producing visual content through digital modelling and the communication among a variety of associated digital tools for drafts, analysis, diagrams and fabrication. Based upon the knowledge in geometry and computational logic, this course will construct a series of digital and physical models alongside the design studio projects including topography models out of the information available to the public domain, parametric massing and envelop models with a high degree of precision, communicative models for visualizing information through different format of the visual content, analytical models for design evaluation feedback, and the production

models from a series of computer controlled fabrication devices, including the CNC milling machine, the large-format laser cutter, and a three-dimensional printer.

Assessment: 100% continuous coursework assessment

ARCH2049 Architectural History and Theory 2 (6 credits)
Global Perspectives I

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: 70% continuous coursework assessment and 30% examination

ARCH2051 Building Technology 2 (6 credits)
Building Structures

The course aims 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

Year 2
Semester 2

ARCH2048 Architectural Design 3 (12 credits)

Architectural Design 3 is the second in a two-course sequence that focuses on environmental and spatial considerations with emphasis on the integration of building technology in design and the use of digital media in conceptualizing and presenting design ideas. The course aims at developing both an awareness of architecture within a community environment and an ability to apply architectural language in design. A study of a community will be made paying particular attention to its architectural character and context. This study, which includes basic site survey, will form the basis of ensuing design projects, sketch designs and field studies. Field trips form an integral part of the course.

Assessment: 100% continuous coursework assessment

Prerequisite: ARCH2047 Architectural Design 2

ARCH2050 Architectural History and Theory 3 (6 credits)
Global Perspectives II

The purpose of this course is two-fold: to introduce students the development of major architectural ideas and a selected group of significant architectural monuments in East, South, and Southeast Asia, from ancient times to the nineteenth century, and the unique aesthetic, social-cultural, technological 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 Asia, but around the world.

Assessment: 100% continuous coursework assessment

ARCH2052 Building Technology 3 (6 credits)
Building Sustainability

This course introduces the ideas of sustainability through the underlying ecological principle of whole systems. Ecological systems by nature are dynamic. Therefore, a critical understanding of the functioning, limitations and requirements of the system are fundamental. Lectures and projects will explore the latent potential of these different systems (whether natural or artifice) and how they effect and are affected by the built environment.

Assessment: 100% continuous coursework assessment

ARCH2053 Visual Communications 3 (6 credits)
Animate Systems

Visual Communications 3 examines techniques associated with forming narratives in architecture. Beginning with modelling complex spaces, the focus will be on producing images and presentation line drawings. The course will introduce the concept of digital analysis for environmental and structural systems. The final project consists of an animated series of drawings which will utilize motion studies as a tool of design and discourse. [Note: Software involved will be Rhino, Grasshopper, Vray, Keyshot, Ecotect, Photoshop, and Illustrator]

Assessment: 100% continuous coursework assessment

Year 3
Semester 1

ARCH3045 Architectural Design 4 (12 credits)

Architectural Design 4, a capstone experience in the BAAS program, is the first in a two-course sequence that places emphasis on the development of a design ability to organize building processes of medium complexity within a social and economic framework and in the environmental context of Hong Kong. The course culminates with an integrated

design project and is assessed by an oral examination. Other design projects, measured drawings and sketch designs supplement the main coursework. Field trips form an integral part of the course.

Assessment: 100% continuous coursework assessment

Prerequisite: ARCH2048 Architectural Design 3

ARCH3047 Architectural History and Theory 4 (6 credits)

The City

This course is intended to introduce students to the scholarly study of the city, from ancient Greece to the Shenzhen Special Economic Zone. Understanding the city as a global entity shaped by dynamic and ever-changing cultural, industrial, political and social processes forms a major goal of the course. Each lecture will be devoted to the examination of several key case-studies in coordination with an important concept or methodological concern in the study of the built environment. Recognizing how these processes manifest themselves spatially, and how they impact both architectural and urban form and development over time, constitutes another major course objective. Students will be expected to complete a final research project on a topic related to a city of their own choosing.

Assessment: 100% continuous coursework assessment

ARCH3069 Building Technology 4 (6 credits)

Building Construction and Practice

This course has its focus on the thorough relationship of building materials and technology with architectural design and practices. It explains various design theories as reflected in general architectural design and detailing. Topics of building types and building enclosure are identified with reference to both local and international examples. Documentation of technical documents and stages of practices in accordance with the Hong Kong Institute of Architects are interpreted.

Assessment: 100% continuous coursework assessment

DISCIPLINARY ELECTIVE (6 credits)

Year 3

Semester 2

ARCH3046 Architectural Design 5 (15 credits)

Architectural Design 5, a capstone experience in the BAAS program, is the second in a two-course sequence that places emphasis on the development of a design ability to organize building processes of medium complexity within a social and economic framework and in the environmental context of Hong Kong. The course culminates with an integrated design project and is assessed by an oral examination. Other design projects, measured drawings and sketch designs supplement the main coursework. Field trips form an integral part of the course.

Assessment: 100% continuous coursework assessment

Prerequisite: ARCH3045 Architectural Design 4

ARCH3048 Architectural History and Theory 5 (6 credits)
Contemporary Issues in Architecture

This course examines key discursive issues that impact architecture and the built environment today. Emphasis will be placed on understanding contemporary challenges in architectural practice and theory and their origins vis-à-vis the continuation, diversification, and transformation of the modernist tradition over the course of the last century leading up to the millennium. Major issues to be addressed include the inextricable relationship between architecture and the global-local context, the digital revolution, the conservation of urban and cultural heritage, public housing, sustainability and the impact of the impending energy crisis upon future urban development, and the interconnectedness of architecture and other disciplines. Multidisciplinary discourses on mass culture, globalization, place-making, identity and post-colonialism will also be introduced.

Assessment: 100% continuous coursework assessment

ARCH3070 Building Technology 5 (6 credits)
Building Integration

Building Integration examines the architecture of integrated building systems. This course introduces methods of integration and procedures for analyzing building systems in relation to specific environmental considerations, architectural design, construction, and building life-cycle operations. Students will study exemplary case studies to understand how they work as integral buildings, what went into their consideration, and what they add to the accumulated knowledge of contemporary architectural practice. Emphasis is placed on understanding how successful integration brings all building components together in a sympathetic way - while reinforcing the synergy of the whole without sacrificing the integrity of the individual building components. Workshops, site visits, and direct engagement with local expert practitioners will form an essential part of this course. Students shall prepare analytical drawings which explore methods of building integration through appropriate selection, configuration, and combination of architectural technologies within their design studio projects.

Assessment: 100% continuous coursework assessment

DISCIPLINARY ELECTIVE COURSES

Students can choose to take the disciplinary elective courses from this approved list only.

Category I: History and Theory

ARCH5107 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 assessment

ARCH6220 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 with collaborate art institution develop activism towards issues of visual cultures, emphasis will be put on visual research and its production.

Assessment: 100% continuous assessment

ARCH7120 The Genealogy of Contemporary Paradigms (6 credits)

This seminar module aims to map the historical and theoretical background, as well as a possible future, to contemporary design discourses and concepts associated to the prevalent methodologies inherent in today's design and production technologies, while confronting the imminent intellectual challenge facing our generation of architects: To discover the theoretical, cultural and social implications of our new computational practices. Through a survey of paradigms, their historical lineages, trajectories and seminal shifts, this seminar explores new and emerging theoretical knowledge emanating from critical and social theory, philosophy, the nascent arena of computational theory, mathematics, biology and the complexity and natural sciences. The primary references for this seminar will be a series of historical and contemporary texts, with links to spatial, material, architectural and urban examples. Students will engage in presentations, debates, writing short texts, and the making of a book as the shared outcome of the seminar.

Assessment: 100% continuous assessment

ARCH7122 Topics in Architectural History and Theory (6 credits)

This course gives students the opportunity to further explore specific issues and topics in architectural history and theory.

Assessment: 100% continuous assessment

ARCH7123 Buddhism and Architecture: a Historical Perspective (6 credits)

Based on the teachings of the Nyingma School of Tibetan Buddhism, this course is an interdisciplinary study of Architecture and Buddhism using physical buildings to explain Buddhist philosophies. The Vimalakirti Sutra says, “All the different kinds of earthly desires are all the seeds of the Buddha”. The course will begin with an introduction to the Nyingma School of Tibetan Buddhism and clarification of the relationship for the three schools of Madhyamaka, Yogacara and Tathagatagarbha (Buddha-nature). Subsequently, spirituality is explained and discussed in each of the three schools of Madhyamaka, Yogacara and Tathagatagarbha illustrated with examples from the study of architecture like architectural styles, theories of architecture, functionality, historical references and construction technology. The spirit of modernism, technology, symbolism, sustainability and humanity in architectural studies are revealed to be embraced in corresponding views of various Buddhist philosophies from the three schools of Madhyamaka, Yogacara and Tathagatagarbha with reference from Sutras and Shastras. The course will also cover Buddhist Architecture in Asia such as India, China (including Tibet) and Japan etc.

Assessment: 100% continuous assessment

Category II: Urbanism and Habitation

ARCH5110 Topics in Urban Studies (6 credits)

This course gives students the opportunity to further explore specific issues and topics in urban design and planning.

Assessment: 100% continuous assessment

ARCH7220 Case Studies of Urban Development in Hong Kong (6 credits)

Although Hong Kong has a relative short history of development as compare to other major cities in the world, but due to political, geographical, cultural and environmental factors, it has become the unique model of a high density metropolis. This course aims to allow students to examine and research on real cases of urban development which have led to its present phenomenon.

Aspects of studies include:- government policies, laws in development controls, housing, urban renewal, heritage preservation, sustainability issues, infrastructure supports, harbour front enhancement etc. will be discussed. Students are expected to analysis and participate with assignments of particular topics of their choice in relation to the course.

Assessment: 100% continuous assessment

Category III: Technology and Sustainability

ARCH5303 Sustainable Building Systems (6 credits)

Advanced studies in innovative technologies are undertaken. Energy efficient and intelligent buildings are analyzed 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 assessment

ARCH7301 Sustainable Design Methods (6 credits)

This course gives students the opportunity to further explore specific issues and topics in sustainable building technology. The course will present precedent projects and case studies and ask students to undertake projects that deal with strategies for sustainable building design.

Assessment: 100% continuous assessment

ARCH7302 Topics in Advanced Structures (6 credits)

This course gives students the opportunity to further explore specific issues and topics in advanced structural systems for architecture. The course will present precedent projects, case studies and strategies for integrating structural principles into the design process. Course topics may include, but are not limited to the study of established and exploratory structural systems, construction materials, and fabrication techniques.

Assessment: 100% continuous assessment

Category IV: Digital Media and Design Computation

ARCH5302 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 assessment

ARCH5305 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 assessment

ARCH5311 Digital Media and Methods (6 credits)

This course provides a comprehensive introduction for 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 modeling of complex form and the rationalization non-planar geometries. The goal of the class is to bring students with basic skills in the use of software for architects quickly up to speed with essential tools and processes.

Assessment: 100% continuous assessment