

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

*These regulations and syllabuses apply to students admitted in the academic year 2010-2011 and thereafter.*

*(See also General Regulations and Regulations for First Degree Curricula)*

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### **Admission to the degree**

**Ar1** To be eligible for admission to the degree of Bachelor of Arts in Architectural Studies, a candidate shall:

- (a) comply with the General Regulations;
  - (b) comply with the Regulations for First Degree Curricula; and
  - (c) satisfy all the requirements of the curriculum in accordance with these regulations and the syllabuses.
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### **Period of study**

**Ar2** The curriculum for the Bachelor of Arts in Architectural Studies shall normally require six semesters of full-time study, spread over three academic years, and shall include any assessment to be held during and/or at the end of each semester. Candidates shall not in any case be permitted to extend their studies beyond the maximum period of registration of five academic years.

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### **Selection of courses**

**Ar3** Candidates shall select their courses in accordance with these regulations and the guidelines as specified in the syllabuses before the beginning of each semester. Such selection shall be subject to the approval of the Head of the Department of Architecture.

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**Ar4** Changes to the selection of courses may be made during the first two weeks of each semester subject to the approval of the Head of the Department of Architecture, and such changes shall not be reflected in the transcript. Requests for changes after the first two weeks of a semester shall not be considered, and a candidate withdrawing from any course without permission shall be given an F grade.

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### **Curriculum requirements**

**Ar5** To complete the curriculum a candidate shall:

- (a) satisfy the requirements prescribed in UG 5 of the Regulations for First Degree Curricula;
  - (b) enrol in courses of a total of 180 credits, comprising 159 credits in core courses, 6 credits in English language enhancement, 3 credits in Chinese language enhancement and 12 credits in Common Core courses;
  - (c) follow instruction in the courses as prescribed under these regulations and complete satisfactorily all coursework requirements set as tests or as parts of any examination and practical work<sup>1</sup> to be undertaken as an integral part of the BA(ArchStud) curriculum; and satisfy the examiners in the assessment of the courses in the manner specified in the regulations and syllabuses.
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<sup>1</sup> Candidates are required to undertake practical work for a total minimum of 20 weeks normally during their summer vacation in the BA(ArchStud) course under the guidance of the Department of Architecture. Reports for assessment on their practical work have to be submitted to the Department before commencement of the first semester in September.

**Progression in curriculum****Ar6**

- (a) Candidates shall normally be required to take not fewer than 24 credits nor more than 30 credits in any one semester (except the summer semester) unless otherwise permitted or required by the Board of the Faculty, or except in the last semester of study when candidates may be required to take fewer than 24 credits to satisfy the outstanding curriculum requirements.
  - (b) Candidates may, of their own volition, take additional credits not exceeding 6 credits in each semester, accumulating up to a maximum of 72 credits in one academic year. With the special permission of the Board of the Faculty, candidates may exceed the annual study load of 72 credits in a given academic year provided that the total number of credits taken does not exceed 216 credits, save as provided for under Ar6(c).
  - (c) Where candidates are required to make up for failed credits, the Board of the Faculty may give permission for candidates to exceed the annual study load of 72 credits provided that the total number of credits taken does not exceed 360 credits.
  - (d) Candidates may, with the approval of the Board of the Faculty, transfer credits for courses completed at other institutions at any time during their candidature. The number of transferred credits may be recorded in the transcript of the candidate, but the results of courses completed at other institutions shall not be included in the calculation of the GPA. The number of credits to be transferred shall not exceed half of the total credits normally required under the degree curricula of the candidates during their candidature at the University.
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**Assessment**

**Ar7** Candidates shall be assessed for each of the courses which they have registered for, 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 or project reports, or any other manner as determined by the examiners. Grades shall be awarded in accordance with UG 8(a) of the Regulations for First Degree Curricula.

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**Ar8** Candidates who are unable, because of illness, to be present at the written examination of any course may apply for permission to present themselves at a supplementary examination of the same course to be held before the beginning of the First Semester of the following academic year. Any such application shall be made on the form prescribed within two weeks of the first day of the candidate's absence from any examination. Any supplementary examination shall be part of that academic year's examinations, and the provisions made in the regulations for failure at the first attempt shall apply accordingly.

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**Ar9** Candidates shall not be permitted to repeat a course for which they have received a D grade or above for the purpose of upgrading.

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**Failure in examination****Ar10**

- (a) Students who have failed in more than a total of 6 credits of courses and/or elective courses in any semester of any year's examination at the first attempt must present themselves for re-examination at a specified date before the commencement of the following semester. Students who have failed in more than a total of 6 credits of courses and/or elective courses at the second attempt shall not be permitted to proceed to the following semester and will be required to repeat the courses of that semester in the following academic year.

- (b) Students who have failed in not more than a total of 6 credits of courses and/or elective courses in any semester of any year's examination at the first attempt may be permitted to present themselves for re-examination in the same course or courses at a specified date during the following semester.
- (c) Students who have failed in any course at the second attempt shall be permitted to present themselves for re-examination in the same course only once more.
- (d) Candidates shall be required to discontinue their studies if they have:
  - (i) failed to complete successfully 36 credits in two consecutive semesters (not including the summer semester), except where they are not required to take such a number of credits in the two given semesters, or
  - (ii) failed to achieve an average Semester GPA of 1.0 or higher for two consecutive semesters, or
  - (iii) exceeded the maximum period of registration specified in Ar2, unless otherwise permitted by the Board of the Faculty, or
  - (iv) failed any course at the third attempt.

**Ar11** Candidates who have failed in Architectural Design and in not more than three core courses at the first attempt may be permitted to present themselves for re-assessment at a specified date before the commencement of the following year. If they fail again in any core course or in Architectural Design at the second attempt, they shall not be permitted to proceed to the subsequent year and shall be required to repeat all failed courses and to present themselves for re-assessment in each failed course only once more in the following academic year.

**Ar12** Candidates who have failed in Architectural Design and in more than three core courses at the first attempt shall not be permitted to proceed to the subsequent year and be required to repeat all failed courses and to present themselves for re-assessment in the following academic year. If they fail at the second attempt, they may be permitted to present themselves for re-assessment in each failed course only once more at a specified date before the commencement of the following academic year.

### **Degree classification**

**Ar13** A pass list of candidates awarded the degree of Bachelor of Arts in Architectural Studies will be published in five divisions as follows: First Class Honours, Second Class Honours (Division I), Second Class Honours (Division II), Third Class Honours and Pass. The classification of honours shall be determined by the Board of the Faculty at its full discretion by taking into account the overall performance of the candidates and other relevant factors as appropriate.

## **SYLLABUSES FOR THE DEGREE OF BACHELOR OF ARTS IN ARCHITECTURAL STUDIES**

Students entering the 3-year BA(AS) curriculum in the academic year 2010-11 will take 159 credits of courses, plus a total of 21 credits in language and Common Core courses, totaling 180 credits for the 3-year curriculum, or 60 credits per academic year.

The Architectural Studies curriculum has four types of courses which are taught using distinct learning modes.

All courses are 3 credit courses with the exception of the Design Studios which are 12 or 15 credits. All Design Studios and the majority of History and Theory, Technology, and Visual Communications courses are offered in two parts, with Part I run in the first semester and Part II run 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 History and Theory, and Technology are assessed through a combination of continuous coursework assessment (ranging from 40% to 100%) and examination (ranging from 0%- 60%).

The syllabus of the Bachelor of Arts in Architecture Studies shall comprise the following requirements:

### First Year of Studies

[First Semester courses]	
Architectural design I	(12 credits)
History and theory of architecture I	(3 credits)
Principles of buildings I	(3 credits)
Visual communications I	(3 credits)
Architecture and the creative industries I	(3 credits)
English language enhancement course	(3 credits)
Common core course	(6 credits)
[Second Semester courses]	
Architectural design II	(12 credits)
History and theory of architecture II	(3 credits)
Principles of buildings II	(3 credits)
Visual communications II	(3 credits)
Architecture and the creative industries II	(3 credits)
English language enhancement course	(3 credits)

### Second Year of Studies

[First Semester courses]	
Architectural design III	(15 credits)
History and theory of architecture III	(3 credits)
Technology of built environment I	(3 credits)
Visual communications III	(3 credits)
Urbanism I	(3 credits)
Chinese language enhancement course	(3 credits)
Common core course	(6 credits)
[Second Semester courses]	
Architectural design IV	(15 credits)
History and theory of architecture IV	(3 credits)
Technology of built environment II	(3 credits)
Visual communications IV	(3 credits)
Urbanism II	(3 credits)

### Final Year of Studies

[First Semester courses]	
Architectural design V	(15 credits)
History and theory of architecture V	(3 credits)
Digital media in architecture	(3 credits)
Building systems I	(3 credits)
Design and practices of technology I	(3 credits)

[Second Semester courses]	
Architectural design VI	(15 credits)
History and theory of architecture VI	(3 credits)
Analysis of modern architecture	(3 credits)
Building systems II	(3 credits)
Design and practices of technology II	(3 credits)
Technology of built environment workshop	(3 credits)

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

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

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**Architectural Design Studio Courses** (12 and 15 credits requiring approximately 300 and 375 hours respectively 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 two, four-hour design studio sessions per week (total of 96 contact hours, 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 assessment of drawings, diagrams, photos, renderings, animations, physical models and prototypes. The usual assessable output consists of annotated diagrams and short project descriptions (totalling about 5,000 words for the whole course).

ARCH1001. Architectural design I (12 credits)  
 ARCH1002. Architectural design II (12 credits)  
 ARCH2001. Architectural design III (15 credits)  
 ARCH2002. Architectural design IV (15 credits)  
 ARCH3001. Architectural design V (15 credits)  
 ARCH3002. Architectural design VI (15 credits)

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**History and Theory Courses** (3 credits).

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 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 (40%-100%) and examination (0%-60%). 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.

ARCH1003. History and theory of architecture I (3 credits)  
 ARCH1004. History and theory of architecture II (3 credits)  
 ARCH2003. History and theory of architecture III (3 credits)  
 ARCH2004. History and theory of architecture IV (3 credits)  
 ARCH3003. History and theory of architecture V (3 credits)  
 ARCH3004. History and theory of architecture VI (3 credits)  
 ARCH2011. Urbanism I (3 credits)  
 ARCH2017. Urbanism II (3 credits)  
 ARCH3017. Analysis of modern architecture (3 credits)  
 ARCH1011. Architecture and creative industries I (3 credits)  
 ARCH1012. Architecture and creative industries II (3 credits)

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### **History Technology Courses (3 credits).**

These courses explore issues of materials, construction, structures and environment as they relate to the built environment. 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 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 (40%-100%) and examination (0%- 60%). Continuous assessment is usually by various methods including home work, group work, quizzes, group projects, assignments, integrated coursework, presentation, and individual study. The usual output mainly comprises annotated diagrams.

ARCH1005. Principles of building I (3 credits)  
 ARCH1006. Principles of building II (3 credits)  
 ARCH2014. Technology of built environment I (3 credits)  
 ARCH2015. Technology of built environment II (3 credits)  
 ARCH3018. Building systems I (3 credits)  
 ARCH3019. Building systems II(3 credits)  
 ARCH3022. Technology of built environment workshop (3 credits)  
 ARCH3014. Design and practices of technology I (3 credits)  
 ARCH3015. Design and practices of technology II (3 credits)

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### **Visual Communications (3 credits).**

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 various computer software to link photography, drawing, and other media.

Teaching is conducted in twelve three hour lectures / workshops / review sessions (36 contact hours per course), except *Digital Media in Architecture* which is twelve two hour lectures / workshops / review sessions (24 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 assessment of drawings, diagrams, photos, renderings, animations, physical models and prototypes. The usual assessable output consists of annotated diagrams and short project descriptions (totalling about 5,000 words for the whole course).

ARCH1007. Visual communications I (3 credits)  
 ARCH1008. Visual communications II (3 credits)  
 ARCH2007. Visual communications III (3 credits)  
 ARCH2008. Visual communications IV (3 credits)  
 ARCH3016. Digital media in architecture (3 credits)

## FIRST YEAR

**ARCH1001. Architectural design I** (12 credits)

**ARCH1002. Architectural design II** (12 credits)

Each semester course is 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.

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**ARCH1003. History and theory of architecture I** (3 credits)

This course carries out a critical survey of western architecture from pre-Classical times to the mid 18th century; covering the history, cultures, theories, essential characteristics and technologies of Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Early/High Renaissance, Mannerist, Baroque to pre-Enlightenment periods in syncoated architectural developments of 'western' countries. Emphasis is placed on factors relating basic needs, cultures, economic, political situations and available technologies to art and architecture.

The course seeks to be thought provoking, to direct students towards an understanding of the relevance of history to design and to establish a foundation for approaches in the methodologies of study in history and theory of Architecture.

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**ARCH1004. History and theory of architecture II** (3 credits)

This is a general survey course on the history and theory of Chinese architecture, city planning, and landscape, covering the periods from ancient China to the mid-17<sup>th</sup> Century. It also includes the architecture and urbanism of other Asian cultures such as Japan, Korea, South-East Asia and India that had taken part in the formation of the architecture of this region. It introduces basic knowledge on culture and ideology, spatial concepts and formal characteristics, tectonic and environmental principles, as well as their social and symbolic significances.

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**ARCH1005. Principles of buildings I** (3 credits)

This course offers an introduction to the basic knowledge in design and construction process, with emphasis upon the principles, basic elements, materials, details, structure and form. Site visits and laboratory assignments form an integral part of the learning process. Case studies involving real projects will be conducted.

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**ARCH1006. Principles of buildings II** (3 credits)

The environmental issues of a building are introduced from the macroscopic to the microscopic environment. Prime physical governing factors are examined in relation to the needs of the occupants of the building. Laboratory work and site investigation for carrying out solar design for buildings using physical solar design tools as well as related software will be conducted. Basic building services for a shop/house will be covered.

**ARCH1007. Visual communications I (3 credits)**

*Drawing* serves as an introduction to the series of four courses which form the visual communications sequence. While touching upon the fundamentals of freehand drawing, the course focuses on two-dimensional computer generated line drawings and the construction of three-dimensional models with the aid of the laser-cutter. The course culminates with a presentation which collapses the entire terms work together in one didactic image.

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**ARCH1008. Visual communications II (3 credits)**

The second course in the sequence, *Collage*, investigates methods to manage, manipulate, and envision information. An assortment of software will be utilized to link photography, drawing, illustration, painting, and filmic montage together using a wide range of digital processing techniques. Graphic design will be explored as a means to precisely describe a space visually by arranging discrete elements together in a logical and lucid manner.

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**ARCH1011 & ARCH1012. Architecture and the creative industries I & II (3 credits each)**

These two courses aim to introduce architecture and design related disciplines (including design, fashion, advertising, art, antiques and crafts, film and video, game and software, music, performing arts, publishing, television and radio) – generally referred to as Creative Industries – to beginning undergraduate students. They assume no previous knowledge or training in the subject and serve to stimulate interest in understanding the creative process in these industries. Students will be required to attend departmental guest lectures as well as other events related to architecture and the creative industries as prescribed by the course coordinator.

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**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

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**CAES1105. Communication course for Architecture students (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 will learn how to analyse architectural readings and texts critically and to engage in focused discussion and debate on related issues.  
Assessment: 100% continuous coursework assessment

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**SECOND YEAR**

To broaden the education by immersion in issues and the culture of China, students may be required to spend one semester in the Faculty's new facility in Shanghai to complete the curriculum.



**ARCH2001. Architectural design III (15 credits)****ARCH2002. Architectural design IV (15 credits)**

Each semester course 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.

Pre-requisite: ARCH1001 and ARCH1002.

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**ARCH2003. History and theory of architecture III (3 credits)**

This survey course, covering the period from approximately 1900 to 1945, provides students with a basic critical understanding of major developments in European and to a lesser extent, American and Asian architectural history during the first half of the 20<sup>th</sup> century, which is usually seen as the period of modern architecture's initial definition and realization. Rather than presenting modern architecture as one coherent and cohesive movement, this course attempts to illustrate the complexity of this period of history through a series of themes. Whether formal, theoretical, social, cultural, technological, economic or political in nature, these themes reflect moments of significant changes in architecture that occurred in response to the complex processes of modernization, most of which still remain relevant to our present circumstances. This course stresses the link between theory and practice, the relationship between architecture and its broad social context, and the connections between history and the present time.

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**ARCH2004. History and theory of architecture IV (3 credits)**

This course surveys the major architectural developments in Europe, America and Asia from 1945 to the present. Emphasis is placed on the understanding of the continuation, diversification, and transformation of the modernist tradition as well as the serious ruptures and radical departures that have taken place since the end of World War II. The simultaneity and rapidity of global and local politics, economy, culture and technology significantly impacted the theory and practice of architecture. Themes take into account the postwar reconstruction in Europe and Japan, widespread decolonization and the housing crisis, the continuation of war via the Cold War, the rise of America as the dominant superpower, the internationalization of American popular culture, and the more recent economic rise of Asia. This course stresses the inextricable relationship between architecture and the global-local context, the interconnectedness of architecture and other disciplines, and the ongoing dialogue between architecture and its own history. A major objective of the course is to cultivate students' ability to read contemporary architecture in a precise context with an acute historical awareness of its various traditions and influences.

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**ARCH2007. Visual communications III (3 credits)**

*Methods of Fabrication.* By manipulating and controlling information available in the public domain, a GIS model will be constructed to form a landscape out of the pre-existing, mapped urban environment. Developing the information further, a three-dimensional computer model will be constructed to produce objects with a high degree of precision. By manufacturing the model from a series of computer controlled fabrication devices, including the CNC milling machine, the large-format laser cutter, and a three-dimensional resin printer, a highly precise physical model will be the final output.

**ARCH2008. Visual communications IV (3 credits)**

*Animation*, the last visual communications course, examines techniques associated with forming narratives in architecture. Beginning with modelling complex spaces, the focus will be on producing a three dimensional model of geometric efficiently in order to control the time required to construct and render a project of substantial size. The final project consists of an animation which will utilize motion as a tool of design and discourse.

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**ARCH2011. Urbanism I (3 credits)**

This course offers a comparative study of the history of urban design. It covers the history of urban design from the earliest cities to the present day. It will introduce the process of urban design, examine planning theories, and synthesize urban morphology (opportunities and constraints of various urban forms).

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**ARCH2017. Urbanism II (3 credits)**

This course focuses on the formative urban transformations of the twentieth century and the associated urban theories that have motivated, and are still influencing construction and theories of cities today. Lectures and readings will cover topics that traverse time and space, ranging from the industrial revolution in 19<sup>th</sup> century Europe to the effects of globalization in contemporary Asian cities. Crucial writings on selected illustrative cities and their physical transformations as well as the contributing political, economic and social forces will be examined to reveal connections and relationships between the various developmental phases of the modern city and its theories.

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**ARCH2014. Technology of built environment I (3 credits)**

This course introduces more complex structural systems. Various wide span spatial form-resisting structures are covered. Tall vertical structures such as multi-storied structures are also discussed. Site investigation, shallow/deep foundations and retaining structures form part of the course as well.

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**ARCH2015. Technology of built environment II (3 credits)**

Basic environmental controls and basic building services will be covered in an integrated approach with construction and structural issues. Aspects of sustainability and energy efficiency in buildings and appropriate technical studies are key components of the course.

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**THIRD YEAR**

To broaden the education by immersion in issues and the culture of China, students are required to spend one semester in the Faculty's new facility in Shanghai to complete the curriculum.

**ARCH3001. Architectural design V (15 credits)****ARCH3002. Architectural design VI (15 credits)**

Each semester course 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 a comprehensive design project in depth 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.

Pre-requisite: ARCH2001 and ARCH2002.

**ARCH3003. History and theory of architecture V (3 credits)**

The history and theory course on Asia Architecture of BAAS 3 emphasizes basically on dwelling, garden/landscape, urban form, and modern movement in 20<sup>th</sup> century in Asia. The histories of architectures in the region with a richness of environmental and cultural diversities are introduced with a strong intention to building up in inter-relationship among them, and to formulate systematic knowledge as a counter part of that about Western Architecture. Experiential and Problem Based Learning methods are applied. Students are required to identify topics of research focusing Architectures in Japan, Korea, and Southeast Asia, on which previous knowledge on Architecture can be motivated in the research work.

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**ARCH3004. History and theory of architecture VI (3 credits)**

This course is a summation to the History and Theory series in the BAAS curriculum. Building upon foundation laid in earlier survey courses in the first and second years, this course introduces diverse themes for in-depth investigations in current architectural and urban discourses and provides guidance for further studies in the field. We shall look at research methodologies and the polemics of urgent issues in Urban and Architectural designs of the 21<sup>st</sup> century. The course shall examine contemporary papers and literature with a focus on current cross cultural and interdisciplinary investigations. A major objective is to inspire students towards an interest and a broad based knowledge of global concerns in topics of Architectural and Urban design. The unique position of Hong Kong as a key locale between the traditional 'East and West' divide shall be stressed as a point of departure for a new perspective from which to stage novel and relevant explorations.

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**ARCH3014. Design and practices of technology I (3 credits)**

In this course, knowledge of technology is disseminated as a tool to make architecture. Historical references outline the development of technology in the modern era. Development of technical design is revealed from working sketches, production documentation, and stages of professional practices. Performance criteria of materials are discussed. The building enclosure is explained as an integrative system, with references to local / international examples.

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**ARCH3015. Design and practices of technology II (3 credits)**

Materials are presented as the basis of construction, in relation to environmental protection and application. Digital technology as a means to make architecture is explained. Awareness of technical documentation and specifications in design realization is revealed. The construction of architecture as a built environment for both physical and mental well being is discussed. Selected building types are discussed with reference to local / international examples.

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**ARCH3016. Digital media in architecture (3 credits)**

Parametric modelling will be examined as a means to form and construct a work of architecture. Instead of directly modelling individual components, the course focuses on scripting relationships between discrete elements in order to describe a space through an algorithmic process. Digital fabrication techniques will be used to extract the model in a manner which can be precisely machined and logically reassembled.

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**ARCH3017. Analysis of modern architecture (3 credits)**

The didactic intention of this course is twofold: first, to develop a capacity of close reading of significant architectural work, be it a canon in modern history, or a vital piece in the contemporary scene; and second, to cultivate an awareness of the continuous evolution and transformation of architectural language within the historical process, from the origin of modernism to the present. In contrary to a history survey that is commonly arranged in chronological order, this course will adapt a reversed itinerary. It starts from investigating the contemporary works by the architects such as Stirling, Venturi

and Scott Brown, Rossi, Eisenman, Siza, Gehry, Koolhaas, and Herzog and de Meuron. After examining each body of work's unique contribution to the repertoire of architectural language, the course will run backward: it will measure each one's debt to the modernist tradition and attempt to trace out each one's evolutionary trajectory in history. In short, this course intends to make a critical review of the development of modern architectural language, through a contemporary lens.

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#### **ARCH3018. Building systems I (3 credits)**

More advanced structural applications of building structures are discussed. Topics such as innovative structures, natural and biomimetic structures, smart systems, kinetic structures and structural failures are discussed. Issues relating to the integration of structures within architectural and interdisciplinary fabric are covered. Current international and local issues on structural technologies are also highlighted and illustrated in lectures, case studies and studio design projects.

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#### **ARCH3019. Building systems II (3 credits)**

More complicated building services and environmental considerations in complex buildings are discussed. Topics on sustainable building design, technologies, certification will also be covered. Case studies and significant integration with design studio projects are essential parts of this course.

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#### **ARCH3022. Technology of built environment workshop (3 credits)**

Laboratory work and building workshops are undertaken as practical applications to topics introduced in the courses Technology of built environment I and II. Site visits are also key components of the course.

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#### **ARCH3021. Urbanism III (3 credits)**

In the 21<sup>st</sup> century, for the first time in human history, more people will live in cities than in the countryside. Knowledge of how cities function, understanding of the forces that drive their development, and engagement with the unique cultural conditions they generate are increasingly necessary components of a sophisticated approach to the practice of architecture. A course in contemporary urban studies, Urbanism III is intended to supplement survey courses in history and theory with a more focused and substantive review of timely topics in contemporary urban theory and practice.

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#### **CARC1001. Practical Chinese language course for Architecture students (3 credits)** 建築學院實用中文課程

1. Practical Chinese writing skills 實用中文寫作技巧
  - a. The Chinese language: characteristics and usage 漢語特性和語文運用
  - b. Basic grammar of modern Chinese 現代漢語基礎語法
2. Chinese characters 漢字
  - a. Transformation of Chinese characters 漢字改革
  - b. Simplified characters 簡化字
  - c. Variant forms 異體字
3. Chinese for special purposes 專業中文寫作技巧
  - a. Notices and announcement 啟事及通告
  - b. Proposal, plan and report writing 建議書、計劃書、報告書
  - c. Target-oriented writing 目標為本寫作
4. Presentation and communication techniques 表達與溝通技巧
  - a. Public speaking 演講技巧
  - b. Speech writing 演講辭的撰寫

Assessment: 50% continuous coursework assessment and 50% examination