



**THE HONG KONG POLYTECHNIC UNIVERSITY**  
**DEPARTMENT OF BUILDING AND REAL ESTATE**

**Part-time Degree Programme**

**For Student Intake 2016-17**

**BSc (Hons) in Building Engineering & Management (32460)**  
**BSc (Hons) in Surveying (32461)**

**September 2016**

**This Definitive Programme Document is subject to review and changes which the programme offering Faculty / Department / School may decide to make from time to time. Students will be informed of the changes as and when appropriate.**

**This document should be read in conjunction with the AS Handbook on Academic Regulations and Procedures.**

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# Part-time Degree Programmes

## 1. GENERAL INFORMATION

### 1.1 BSc (Hons) in Building Engineering & Management

#### Summary of Programme Details

University	:	The Hong Kong Polytechnic University (PolyU)
Faculty	:	Construction and Environment (FCE)
Department	:	Building and Real Estate (BRE)
Programme	:	BSc (Hons) in Building Engineering & Management (BEM)
Total Credits Requirements	:	72 credits
Commencing	:	September 2016
Duration	:	Four Years normally Eight Years maximum
Mode of Attendance	:	Part-time (evenings)
Mode of Finance	:	Self-financed Franchised Programme
System	:	Credit-Based Programme (CbS)

The Department of Building and Real Estate, under the Faculty of Construction and Environment is the host department for these programmes. BSc (Hons) in Building Engineering and Management has been granted accreditation by the Hong Kong Institution of Engineers (HKIE), the Chartered Institute of Building (CIOB), and the Hong Kong Institute of Construction Managers (HKICM).

Other departments and centres within the University that contribute to the programmes are the English Language Centre (ELC), Chinese and Bilingual Studies (CBS), Civil and Environmental Engineering (CEE) and Building Services Engineering (BSE). The Department operates its academic programmes using the Credit-based System. Each programme comprises a number of subjects, expressed in credits. All programmes are upon based University academic year. Under the Credit-based System, an academic year consists of three semesters: Semester 1, Semester 2 and the summer term. For Semesters 1 and 2, each of which usually consists of 13 weeks and is followed by examination period. Between these two semesters, there is a semester break. Summer term is of 7-week duration and usually begins in June.

#### Programme Planning Committee

Head of the Department  
Associate Head (Teaching)  
Scheme Chair  
BEM Programme Leader  
Deputy Programme Leader

## 1.2 BSc (Hons) in Surveying

### Summary of Programme Details

University	:	The Hong Kong Polytechnic University (PolyU)
Faculty	:	Construction and Environment (FCE)
Department	:	Building and Real Estate (BRE)
Programme	:	BSc (Hons) in Surveying (SUV)
Total Credits Requirements	:	72 credits
Commencing	:	September 2016
Duration	:	Four Years normally Eight Years maximum
Mode of Attendance	:	Part-time (evenings)
Mode of Finance	:	Self-financed Franchised Programme
System	:	Credit-Based Programme (CbS)

### Contributing Departments / Centres

Host Department: Building and Real Estate (BRE)

Contributing Departments / Centres:

- English Language Centre (ELC)
- Department of Chinese & Bilingual Studies (CBS)

### Programme Planning Committee

Head of the Department  
Associate Head (Teaching)  
Scheme Chair  
SUV Programme Leader  
Deputy Programme Leader

## **2. CREDIT REQUIREMENT AND DURATION**

There are a defined number of credits for each programme of which students have to register for each semester in accordance with the programme curriculum.

Students are not allowed to have nil subject registration in any semester, including the mandatory summer term as required by the programme unless they have obtained approval from the Department. The legitimate reasons for nil subject enrolment must be provided for the consideration of the Department. Any semester in which a student is allowed to take nil subjects will be counted towards the maximum period of registration.

A student is required to register for the programme at the time of admission. The graduation requirement for the programme is stipulated in the programme curriculum with a normal duration of 4 years (part-time) and a maximum duration for completion of 8 years.

## **3. PROGRAMME AIMS, OBJECTIVES AND OUTCOMES**

### **3.1 BSc (Hons) in Building Engineering & Management**

#### **Programme Aims**

The BEM programme aims to produce graduates who can develop into highly competent and professional building engineers for Hong Kong, China and the international market. It aims to equip students with the knowledge and ability in the production of buildings and facilities so that they will be able to contribute effectively to project and facilities management teams engaged in complex building projects.

#### **Programme Outcomes**

Programme outcomes refer to the intellectual abilities, knowledge, skills and attributes that an all-rounded preferred graduate from BEM programme should possess.

To ensure fulfillment of the goal of developing all-round students with professional competence, it is required that outcome statements encompass the following two categories of learning outcomes:

#### **Professional/Academic Knowledge and Competence**

Upon successful completion of the programme, the graduate is expected to have acquired the ability:-

- (i) to possess knowledge of building engineering principles, processes and methods for the successful completion of all types of construction projects.
- (ii) to use the techniques, skills and engineering principles for different types of construction.
- (iii) to apply construction management knowledge and skills in personnel, financial and operational practices and communication aspects required for efficient building production.
- (iv) to identify, structure and analyse diverse problems arising from the changing social, economic, environmental and technological pressures.
- (v) to solve identified construction problems with appropriate solutions.
- (vi) to evaluate alternative strategic options.

- (vii) to select appropriate construction materials, practices and methods in compliance with sustainable development.
- (viii) to exercise professional judgement in the consideration of alternatives in complex situations.

### **Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Degree scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) to possess skills to identify, analyse and solve problems.
- (ii) to have an understanding of professional, social and ethical responsibilities.
- (iii) to communicate effectively.
- (iv) to reflect on knowledge gap for life time learning.
- (v) to contribute as team member and to lead effectively.
- (vi) to identify contemporary issues.

**Note:** PolyU aspires to develop all its students as all-round graduates with professional competence, and has identified a set of highly valued graduate attributes to be developed through the curricular activities of this programme, some (including the all-rounded attributes of 'to reflect on knowledge gap for life time learning' and 'to transfer and replicate knowledge and skills to other industries/domains' contained therein in the curriculum mappings of the Majors in BSc (Hons) in Building Engineering & Management) are primarily addressed through co-curricular activities offered by faculties, departments, and various teaching and learning support units of the University. Students are encouraged to make full use of such opportunities to develop these attributes.

## 3.2 BSc (Hons) in Surveying

### Programme Aims

The Programme aims to prepare students with fundamental knowledge and skills in the inter-disciplinary professions of land, property and construction for their immediate employability and lifelong learning. The Programme underpins surveying studies with the disciplines of economics, law, management and technology. Graduates will enter the professions of building surveying, quantity surveying, planning & development, property and facility management or general practice surveying as graduate trainees but with full potentials to readily become full-fledged professional surveyors and finally take leading and strategic roles in the profession and business of land, property and construction and make contributions to the community through their chosen professional services.

### Programme Outcomes

Programme outcomes refer to the intellectual abilities, knowledge, skills and attributes that an all-round preferred graduate from surveying programme should possess.

To ensure fulfillment of the goal of developing all-round students with professional competence, it is required that outcome statements encompass the following two categories of learning outcomes:

#### **Professional/Academic Knowledge and Competencies**

Upon successful completion of the programme, the students are expected to attain the following abilities:-

- (i) to comprehend and identify issue and problems concerning land, property and construction at project level.
- (ii) to comprehend and identify issue and problems concerning land, property and construction at corporate level.
- (iii) to comprehend and identify issue and problems concerning land, property and construction at industry level.
- (iv) to comprehend and identify issues and problems concerning land, property and construction at macro social-economic and political level.
- (v) to advise clients through rendering surveying services.
- (vi) to identify, formulate and solve problems related to the surveying profession and real estate industry.
- (vii) to analyse and interpret data of the industry
- (viii) to formulate and implement strategies, policies and solutions for sustainable development and construction.



## **Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Degree scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) to possess skills to identify, analyse and solve problems.
- (ii) to have an understanding of professional, social and ethical responsibilities.
- (iii) to communicate effectively.
- (iv) to reflect on knowledge gap for life time learning.
- (v) to contribute as team member and to lead effectively.
- (vi) to identify contemporary issues.

## **4. ENTRANCE REQUIREMENTS**

### **4.1 BSc (Hons) in Building Engineering & Management**

#### **Normal Applicants**

The basic entrance requirement is a Higher Diploma or Associate Degree in Construction related discipline or equivalent from a recognized institution, with relevant working experience.

#### **Selection**

Selection of applicants for admission is based on academic qualifications, and relevant working experience in construction industry.

In all cases, the final decision as to the suitability of any applicant will be the sole discretion of the Head of Department.

### **4.2 BSc (Hons) in Surveying**

#### **Normal Applicants**

The basic entrance requirement is a Higher Diploma or Associate Degree in Surveying or the equivalent from a recognized institution.

Applicants with a Higher Diploma or Associate Degree in building and real estate related discipline, or other equivalent qualifications with relevant working experience will be considered on individual merit.

#### **Selection**

Selection of applicants for admission is based on academic qualifications and other relevant qualifications or working experience. Short-listed applicants may be required to attend an interview. The purpose of the interview is to assess the applicants' :-

- command of spoken English;
- depth and breadth of relevant knowledge; and
- motivation for entering the programme.

The final selection of students will be based on a balance of academic attainment, motivation, and the interview report, if any.

## 5. PROGRAMME CURRICULUM

### 5.1 BSc (Hons) in Building Engineering & Management

#### Subject Descriptions

'Level' codes reflect the intellectual demand on the students. The levels of the subjects are coded according to a common coding system of the Hong Kong Polytechnic University.

<u>Level</u>		<u>Explanation</u>
2	=	Standard comparable to Year 2 of a 4-year degree Major
3	=	Standard comparable to Year 3 of a 4-year degree Major
4	=	Standard comparable to the final year of a 4-year degree Major

The University adopts a university-wide standard for subject level weighting for calculating the award GPA, and to use the weighting of 2 for Level 2 subjects; and a weighting of 3 for Level 3 and 4 subjects.

The Programme Curriculum and Examination Schedule for each academic level are detailed in Programme Curriculum Table from Stage 3 to Stage 4.

Subjects are referred by subject codes. The alphabets refer to the responsible departments whilst the three-digit reference numbers, the first digit (i.e. 2, 3 or 4) indicates the level of the subjects.

The following Programme Curriculum displays the Discipline-specific Requirements (DSR) for the Major in Building Engineering & Management.

The part time articulation programme is for Associate Degree/Higher Diploma (AD/HD) graduates who have completed the new AD/HD programmes offered by PolyU, HKCC and other sister institutions that recruit HKDSE students. At the end of their study, the students are expected to achieve the same level of requirements for their full-time counterparts.

In order to meet the General University Requirements (GUR) and Discipline-Specific Subject (DSR) requirements, the students will need to attain 9 credits of GUR subjects and 63 credits of DSR subjects, with a total of 72 credits. If the requirements for the Language and Communication Requirements (LCR) in GUR are not met, the students need to take additional LCR subjects to satisfy the requirements in the first two years of their study; these students have to take an assessment test to ascertain the LCR subjects required. There is also a mandatory requirement in DSR for students to complete 2 subjects (each of minimum 2 credits) which contain the necessary embedded language requirements in English and in Chinese.

The students must complete all the required DSR subjects for graduation. The distribution of credit requirements for DSR and GUR subjects are shown in Table 1:

Table 1: Distribution of credits in GUR/DSR subjects

<b>GUR/DSR</b>	<b>Area and Credit Requirements</b>	<b>Curriculum Requirements</b>
General University Requirements (GUR for university core curriculum) Total: 9 credits	Cluster –Area Requirements (CAR) [6 credits; min. 3 credits should be in subject designated as “China-related”]	<ul style="list-style-type: none"> <li>• Students should not take more than 3 credits from the same cluster area.</li> <li>• Students need to fulfill the English and Chinese reading and writing requirements and 3 credits of China Studies requirement (CSR).</li> <li>• Students may apply for a waiver if they have fulfilled the English and Chinese reading and writing requirements and/or CSR requirement in their previous studies.</li> </ul>
	Service Learning [3 credits]	Required
	Language and Communication Requirements (LCR)	Having met the equivalent standard of the Undergraduate Degree Language and Communication Requirements (LCR) (Note 1)
Discipline-Specific Subject (DSR for major study) requirements	Core subjects for major study	63 credits

## Programme Curriculum of Major\* in Building Engineering & Management for Years 1&2

\*Programme Curriculum shows the 63-credit Discipline-Specific Requirements (DSR) for the Major in Building Engineering & Management only. Details of the 9-credit General University Requirements (GUR) can be found from their respective websites provided by the University.

Years 1&2		Curriculum								Assessment Methods	
		Timetabled Contact Hours per Week			No. of Teaching Weeks	Total Hours	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)			
Subject Code	Subject Title	Lecture	Tutorial/Seminar	Lab. (Pract.)/Project Work/ Guided Study				Subject Weighting	Credit Value	CW/CA	Exam.
BRE263	Construction Economics and Finance	2	1	-	13	39	BRE	2.0	3	40%	60%
CSE20290	Introduction to Geotechnology	2	1	-	13	39	CEE	2.0	3	30%	70%
ELC3421	English for Construction and Environmental Professionals	-	3.0	-	13	39	ELC	3.0	3	100%	-
BRE349	Building Services I	2	1	0.5	13	39	BRE	3.0	3	40%	60%
BRE204	Structure I	2	1	-	13	39	BRE	2.0	3	30%	70%
BRE302	Structure II	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE326	Maintenance Technology & Management	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE345	Measurement, Documentation & Estimating	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE361	Construction Technology & Materials II	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE364	Construction Contract Law & Administration	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE3651	International Study*	-	-	0.5	26	12	BRE	3.0	1	100%	-
BRE366	Analytical Skills & Methods	2 (for 8 weeks)	1 (for 8 weeks)	-	8	24	BRE	3.0	2	100%	-
BRE466	Capstone Project <sup>#</sup>	-	-	1.0 (for 10 weeks)	35	184 (PW/GS)	BRE	3.0	3	100%	-
CBS3231P	Chinese Communication for Construction & Environment	-	3	1.0	13		CBS	3.0	3	100%	-
CAR 1	--	-	-	-	-	-	GUR	-	3	-	-
CAR 2	--	-	-	-	-	-	GUR	-	3	-	-
SL	Servicing Learning	-	-	-	-	-	GUR	-	3	-	-

- Note:**
1. Students must meet the Language and Communication Requirements (LCR), otherwise the students are required to take additional LCR subjects.
  2. Students must complete and pass the 6 credits CAR subjects to meet the requirements for 9 credits GUR, and all the subjects listed in Level 2, Level 3, and Level 4 in Stages 3 and 4 prior to their graduation.
- # BRE466 is a **6-credit** core subject spanning across from Semester 2 of Stage 3 to Semester 1 of Stage 4.
- \* BRE3651 International Study is scheduled for the Summer Semester. Students need to do a comparative study with overseas on a chosen topic.

T/S = Tutorial/Seminar

Lab. (Pract.) = Laboratory (Practicals)

PW = Project Work

CW = Coursework

GS = Guided Study

CA = Continuous Assessment

## Programme Curriculum of Major\* in Building Engineering & Management for Years 3&4

Years 3&4		Curriculum								Assessment Methods	
		Timetabled Contact Hours per Week			No. of Teaching Weeks	Total Hours	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)		CW/CA	Exam.
Subject Code	Subject Title	Lecture	Tutorial/Seminar	Lab. (Pract.)/Project Work/Guided Study				Subject Weighting	Credit Value		
BRE350	Project Management & Procurement	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE4393	Temporary Work Design	2	-	3 (PW)	13	63	BRE	3.0	3	100%	-
BRE426	Geotechnical & Foundation Engineering	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE4281	Construction Engineering Management	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE453	Building Services II	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE461	Environmental Impact & Assessment	2	1	-	13	39	BRE	3.0	3	40%	60%
BRE462	Advanced Construction Technology	2	1	-	13	39	BRE	3.0	3	100%	-
BRE466	Capstone Project#	-	-	1.0 (for 10 weeks)	35	184 (PW/GS)	BRE	3.0	3	100%	-

**Note:** Student must complete and pass all subjects listed in Level 4 prior to their graduation.

T/S = Tutorial/Seminar  
 Lab. (Pract.) = Laboratory (Practicals)  
 PW = Project Work  
 CW = Coursework  
 GS = Guided Study  
 CA = Continuous Assessment

## 5.2 BSc (Hons) in Surveying

### Subject Descriptions

'Level' codes reflect the intellectual demand on the students. The levels of the subjects are coded according to a common coding system of the Hong Kong Polytechnic University.

<u>Level</u>		<u>Explanation</u>
1	=	Standard comparable to Year 1 of a 4-year degree Major
2	=	Standard comparable to Year 2 of a 4-year degree Major
3	=	Standard comparable to Year 3 of a 4-year degree Major
4	=	Standard comparable to the final year of a 4-year degree Major
5-6	=	Standard at postgraduate level

The University adopts a university-wide standard for subject level weighting for calculating the award GPA, and to use the weighting of 2 for Level 1 and 2 subjects; and a weighting of 3 for Level 3 and 4 subjects.

The Programme Curriculum and Assessment Methods for each academic level are detailed in Programme Curriculum Table from Stage 1 to Stage 4.

Subjects are referred by subject codes. The alphabets refer to the responsible departments whilst the three-digit reference numbers, the first digit (i.e. 1, 2, 3 or 4) indicates the level of the subjects.

The **typical progression patterns of BSc (Hons) in Surveying** illustrate the semesters in which these subjects are recommended to be taken, if the programme of the Major is to be completed in the minimum time.

'*Electives*' are those subjects which are optional. These give students some choices in composing their study programme.

### Note

\*Programme Curriculum Tables displays the subjects for the Discipline-specific Requirements (DSR) for the Major in Surveying only.

Details of the General University Requirements (GUR) can be referred to their respective websites provided by the SPEED.



## Curriculum structure and components

<b>University Core Curriculum (GUR)</b> [9 credits]	<b>CAR subjects</b> chosen from the following 4 clusters: <ul style="list-style-type: none"> <li>• Human nature, relations and development</li> <li>• Community, organization and globalization</li> <li>• History, culture and world views</li> <li>• Science, technology and environment</li> </ul> [6 credits, min 3 credits of which should be in subjects designated as “China-related”; plus “R” and “W” requirements in English and Chinese]	<b>Service-Learning</b> [3 credits]
	Students are also expected to meet the equivalent standard of the Undergraduate Degree Language and Communication Requirements (LCR). (Note 1)	<b>Healthy Lifestyle</b> <del>[non-credit-bearing]</del>

<b>Major Study (DSR)</b> <b>BSc (Hons) in Surveying (SUR)</b> [63 credits]	<b>Discipline-Specific Subjects for Surveying</b> <b>[24 credits]</b> [Subjects common to all surveying students] [Including 2 embedded language requirements in English (3 credits) and in Chinese (3 credits)]				
	<b>Discipline-Specific Electives for Surveying</b> <b>[33 credits]</b> Surveying students are required to opt ONE Discipline from the 4 surveying disciplines: Building Surveying (BS), General Practice Surveying (GP), Planning & Development (PD) and Quantity Surveying (QS).				
	<i>BS Discipline-Specific Elective Subjects</i> [33 credits]	<i>GP Discipline-Specific Elective Subjects</i> [33 credits]	<i>PD Discipline-Specific Elective Subjects</i> [33 credits]	<i>QS Discipline-Specific Elective Subjects</i> [33 credits]	
	<b>Capstone Project</b> <b>[6 credits]</b>				

Total credit requirement for graduation: 72 credits
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### Note:

1. Students not meeting the equivalent standard of the Undergraduate Degree LCR will be required to take additional LCR subjects. These students will have to take in an assessment test to ascertain the LCR subjects required.

## Programme Curriculum Tables

### Discipline-Specific Requirements (DSR) for SUR

Subject Code	Subject Title	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)		Assessment Methods	
			Subject Weighting	Credit Value	CW/CA	Exam

#### Stage 2 DSR Subjects of the 4-year full-time programme with embedded language requirements in English and in Chinese

ELC3421	English for Construction and Environmental Professionals	ELC	3.0	3	100%	-
CBS3231P	Chinese Communication for Construction and Environment	CLC	3.0	3	100%	-

#### Stage 3 DSR Subjects of the 4-year

BRE326	Maintenance Technology & Management	BRE	3.0	3	30%	70%
BRE336	Development Control Law	BRE	3.0	3	50%	50%
BRE350	Project Management & Procurement	BRE	3.0	3	50%	50%
BRE3651	International Study <sup>2</sup>	BRE	3.0	1	100%	-
BRE366	Analytical Skills & Methods	BRE	3.0	2	100%	-
BRE369	Integrated Professional Workshop II	BRE	3.0	3	100%	-
BRE466	Capstone Project <sup>3</sup>	BRE	3.0	6	100%	-
BS/QS Discipline-Specific Elective subjects <sup>1</sup>						
BRE204	Structure I	BRE	2.0	3	30%	70%
BRE345	Measurement, Documentation & Estimating	BRE	3.0	3	40%	60%
BRE361	Construction Technology & Materials II	BRE	3.0	3	30%	70%
BRE363	Construction Economics	BRE	3.0	3	40%	60%
BRE364	Construction Contract Law & Administration	BRE	3.0	3	30%	70%
GP/PD Discipline-Specific Elective subjects <sup>1</sup>						
BRE315	Property Valuation	BRE	3.0	3	50%	50%
BRE337	Property Law	BRE	3.0	3	30%	70%
BRE341	Property Management I	BRE	3.0	3	30%	70%
BRE362	Urban Economics & Property Investment	BRE	3.0	3	50%	50%
BRE397	Property Management Accounting	BRE	3.0	3	30%	70%

#### Stage 4 DSR Subjects of the 4-year

BRE469	Integrated Professional Workshop III	BRE	3.0	3	100%	-
BS and QS Discipline-Specific Elective Subjects <sup>1</sup>						
BRE415	Dispute Resolution	BRE	3.0	3	100%	-
BRE453	Building Services II	BRE	3.0	3	30%	70%
BRE461	Environmental Impact & Assessment	BRE	3.0	3	40%	60%
BS Discipline-Specific Elective Subjects <sup>1</sup>						
BRE435	Design, Adaptation & Conversion	BRE	3.0	3	50%	50%
BRE437	Facility Management	BRE	3.0	3	50%	50%
BRE450	Building Maintenance for Sustainability	BRE	3.0	3	100%	-
QS Discipline-Specific Elective Subjects <sup>1</sup>						
BRE439	Engineering Contract Procedure	BRE	3.0	3	50%	50%
BRE440	Cost & Value Management	BRE	3.0	3	50%	50%
BRE442	Forecasting & competition in the Built Environment	BRE	3.0	3	40%	60%
GP and PD Discipline-Specific Elective Subjects <sup>1</sup>						
BRE418	Real Estate Development	BRE	3.0	3	50%	50%
BRE427	Applied Property Investment	BRE	3.0	3	30%	70%
BRE4291	Real Estate Marketing	BRE	3.0	3	50%	50%
BRE463	Business Valuation and Accounts	BRE	3.0	3	50%	50%
BRE465	Asset Management	BRE	3.0	3	50%	50%
GP Discipline-Specific Elective Subjects <sup>1</sup>						
BRE436	Applied Property Valuation	BRE	3.0	3	50%	50%
PD Discipline-Specific Elective Subjects <sup>1</sup>						
BRE464	Urban Planning	BRE	3.0	3	100%	-

**Note:**

Students must complete and pass all the Discipline-Specific Subjects and all the Discipline-Specific Elective Subjects of their chosen surveying discipline for graduation.

1. Surveying students are required to opt **ONE** Discipline from the 4 surveying disciplines: BS, GP, PD and QS.
2. BRE3651 International Study is to take place from Semester 1 of Year 2 to Semester 1 of Year 3. Students need to commence their studies and information collection/analysis from Semester 1 of Year 2.
3. BRE466 Capstone Project is a 6-credit core subject spanning across three semesters: Semester 2 and Summer Semester of year 3 and Semester 1 of year 4.

CW = Coursework    CA = Continuous Assessment    E = Elective

General University Requirements (GUR)

Area and Credit Requirement	Curriculum Requirement
Cluster-Area Requirements (CAR) [6 credits; min. 3 credits should be in subject designated as "China-related"]	<ul style="list-style-type: none"><li>• Students should not take more than 3 credits (1 subject) from the same cluster area.</li><li>• Students need to fulfill the English and Chinese reading and writing requirements and 3 credits of China Studies requirement (CSR)</li><li>• Students may apply for a waiver if they have fulfilled the English and Chinese reading and writing requirements and/or CSR requirement in their previous studies.</li></ul>
Service Learning [3 credits]	<ul style="list-style-type: none"><li>• Prior to its full implementation, students may take a 3-credit free elective in lieu of the Service Learning requirement</li></ul>
Language and Communication Requirements (LCR)	<ul style="list-style-type: none"><li>• Having met the equivalent standard of the Undergraduate Degree Language and Communication Requirement (LCR) (Note 1)</li></ul>

**Note:**

1. Students not meeting the equivalent standard of the Undergraduate Degree LCR will be required to take additional LCR subjects. These students will have to take in an assessment test to ascertain the LCR subjects required.

## 6. PROGRESSION PATTERN

There is a specified progression pattern and curriculum for each academic programme. Notwithstanding any alterations, which the Department may consider necessary from time to time, students are expected to follow the progression pattern and curriculum unless special approval has been granted. ***PROGRESSION PATTERNS*** contain details of the prescribed progression pattern for the programme under this Part-time Degree Scheme.

Students may apply for deferment of study if they have a genuine need to do so, such as illness or an overseas business trip. Approval from the Scheme Chair and Programme Leader are required. The deferment period will not be counted as part of the maximum period of registration.

## 7. ASSESSMENT

General Assessment Regulations (GAR) of the University governs the conditions for student assessment and progression, and the recommendation of an award.

### 7.1 Assessment Methods

Students' performance in a subject is assessed by either of the following methods:-

- (a) Coursework only: To pass a subject by this method, a student must attain a minimum Grade 'D' in coursework (tests, assignments, projects, laboratory work, field exercises, presentations and other forms of classroom participation).
- (b) Examination and Coursework (the weighting of each component is stated in the Subject Portfolio): To pass a subject by this method a student must attain a minimum Grade 'D' in coursework and a minimum Grade 'D' in the examination.
- (c) Continuous Assessment: Both Projects and Capstone Project are of this type of assessment where students are assessed through a period of time with stages of work and progress together with the final products of works. Refer to the 'Guidance Notes for the Final Year Capstone Project' for details on the assessment and process.

Assessment methods and parameters are determined by the Subject Leader who will inform the students of the details at the beginning of each semester.

### 7.2 Subject Assessment Review Panel

The Subject Assessment Review Panel (SARP) is responsible for monitoring the academic standard and quality of subjects and ratifying subject grades. It meets at the end of each semester, normally in January and June. The Panel reviews the distribution of grades within a subject and finalises the grades at the end of each semester/term before submission to the Board of Examiners. The Board of Examiners will not attempt to change any grades.

Composition of the SARP is as follows:-

Chairman: (i) Head, Department of Building and Real Estate

Members: (ii) Associate Head (Teaching)  
(iii) Scheme Chair  
(iv) Examination Officer (Quality)

Secretary: Departmental Senior Executive Officer

### 7.3 Grading

At the end of each semester students will be informed of the grade achieved for each subject. Assessment grades shall be awarded on a criterion-referenced basis. A student's overall performance in a subject shall be graded as follows:-

Subject Grade	Short Description	Elaboration on subject grading description
A+	Exceptionally Outstanding	The student's work is exceptionally outstanding. It exceeds the intended subject learning outcomes in all regards.
A	Outstanding	The student's work is outstanding. It exceeds the intended subject learning outcomes in nearly all regards.
B+	Very Good	The student's work is very good. It exceeds the intended subject learning outcomes in most regards.
B	Good	The student's work is good. It exceeds the intended subject learning outcomes in some regards.
C+	Wholly Satisfactory	The student's work is wholly satisfactory. It fully meets the intended subject learning outcomes.
C	Satisfactory	The student's work is satisfactory. It largely meets the intended subject learning outcomes.
D+	Barely Satisfactory	The student's work is barely satisfactory. It marginally meets the intended subject learning outcomes.
D	Barely Adequate	The student's work is barely adequate. It meets the intended subject learning outcomes only in some regards.
F	Inadequate	The student's work is inadequate. It fails to meet many of the intended subject learning outcomes.

Subject passing grades are "A+" to "D" whilst "F" is a subject failure grade. No credit will be earned if a subject is failed. At the end of each semester/term, a Grade Point Average (GPA) will be computed as follows, and based on the grade point of all the subjects (failed subjects are included in the GPA calculation).

$$GPA = \frac{\sum_n \text{Subject Grade Point} \times \text{Subject Credit Value}}{\sum_n \text{Subject Credit Value}}$$

Where n = number of all subjects (inclusive of failed subjects) taken by the student up to and including the latest semester/term, but for subjects which have been retaken, only the grade point obtained in the final attempt will be included in the GPA calculation.

Exempted, ungraded or incomplete subjects and subjects for which credit transfer has been approved without a grade assigned to will be excluded from the GPA calculation. In addition, subjects from which a student has been allowed to withdraw (i.e. those with the code "W") will be excluded. Subject which has been given an "S" code i.e. absent from examination, will be included in the GPA calculation and will be counted as "zero" grade point. GPA is therefore the unweighted cumulative average calculated for a student, for all relevant subjects taken from the start of the programme to a particular point of time. GPA is an indicator of overall performance and is capped at 4.0.

The Weighted GPA will be used as a guide to help determine award classifications, and the level weighting to different subjects of all disciplines and programmes will need to be specified in the Definitive Programme Document.

Weighted GPA will be computed as follows:-

$$\text{Weighted GPA} = \frac{\sum_n \text{Subject Grade Point} \times \text{Subject Credit Value} \times W_1}{\sum_n \text{Subject Credit Value} \times W_1}$$

Where  $W_1$  = weighting to be assigned according to the level of the subject

n = number of all subjects (inclusive of failed subjects) taken by the student up to and including the latest semester/term, but for subjects which have been retaken, only the grade point obtained in the final attempt will be included in the GPA calculation.

For calculating the weighted GPA (and award GPA) to determine the Honours classification of students who satisfy the graduation requirements of Bachelor's degree awards, a University-wide standard weighting<sup>1</sup> will be applied to all subjects of the same level, with a weighting of 2 for Level 1 and 2 subjects, a weighting of 3 for Level 3 and 4 subjects. Same as for GPA, Weighted GPA is capped at 4.0.

Any subjects passed after the graduation requirement has been met will not be taken into account of in the grade point calculation for award classification.

<sup>1</sup> Requests for deviation from this University-wide standard require specific approval by the Academic Regulations Committee.

#### **7.4 Absence from an Assessment Component**

A student who has been absent from an examination, or other form of assessment, due to illness or other causes acceptable to the SARP, may be given another examination or other form of assessment, which will be regarded as a first assessment for grading purposes. This assessment shall usually take place before the commencement of the following academic year. In the cases of illness, the student will be required to submit a medical certificate.

#### **7.5 Retaking Subjects**

Students may retake any subject for the purpose of improving their grade without having to seek approval, but they must retake a compulsory subject which they have failed, i.e. obtained an F grade. Retaking of subjects is with the condition that the maximum study load of 21 credits per semester is not exceeded. Students wishing to retake passed subjects will be accorded a lower priority than those who are required to retake (due to failure in a compulsory subject) and can only do so if places are available.

The number of retakes of a subject is not restricted. Only the grade obtained in the final attempt of retaking (even if the retake grade is lower than the original grade for originally passed subject) will be included in the calculation of the Grade Point Average (GPA). (The grades obtained in previous attempts will only be reflected in the transcript of studies.)

In cases where a student takes another subject to replace a failed elective subject, the fail grade will be taken into account in the calculation of the GPA, despite the passing of the replacement subject.

Remark: Subject to change according to the University regulations.

## **7.6 Board of Examiners**

### **Responsibilities**

The Board of Examiners (BoE) meets at the end of each semester, following the Subject Assessment Review Panel (SARP). The BoE is responsible to the Senate for making decisions concerning:-

- a) Classification of awards;
- b) De-registration cases; and
- c) Cases with extenuating circumstance.

The BoE will not attempt to change the grades for any student in any subject or condone failures. Decisions of the BoE, except those on award and de-registration cases which are straight forward, will be ratified by the Faculty Board. Any decisions by the BoE outside the general assessment regulations of the University supported by the Faculty Board, should be referred to the Academic Regulations Committee for ratification, all such cases shall be reported to the Senate. Decisions by BoE outside the programme regulations but within the general assessment regulations of the University fall within the authority of the Faculty Board.

## **7.7 Composition of BoE**

The composition of the BoE is as follows:-

Chairman: (i) Head, Department of Building and Real Estate

Members: (ii) Associate Head (Teaching)  
(iii) Scheme Chair  
(iv) Award Co-ordinator/Programme Leader  
(v) Deputy Award Co-ordinator/Programme Leader  
(vi) Dissertation Co-ordinator  
(vii) Programme Counselors  
(viii) Examination Officer(s) where appointed, if available  
(ix) 4 to 5 internal subject examiners  
(x) Departmental Academic Advisor and/or External Examiners

Secretary: Departmental Senior Executive Officer

## **7.8 Appeals**

Appeals against the decision of the Subject Assessment Review Panel / Board of Examiners must be made within 7 working days upon the public announcement of the examination results. A student should make the appeal in writing firstly to the Head of the BRE Department. The Department will inform the student of the appeal result and, if the appeal is successful, the Department will inform the Faculty.



## **8. PROGRESSION AND AWARD**

### **8.1 Progression**

At the end of each semester, the Board of Examiners determines whether each student is:-

- (i) Eligible for progression towards an award; or
- (ii) Eligible for an award; or
- (iii) Required to be de-registered from the programme.

A student will have 'progressing' status unless he falls within the following categories, either of which may be regarded as grounds for de-registration from the programme:-

- (i) the student has exceeded the maximum period of registration;
- (ii) the student's GPA is lower than 2.0 for two consecutive semesters and his Semester GPA in the second semester is also lower than 2.0; or
- (iii) the student's GPA is lower than 2.0 for three consecutive semesters.

Notwithstanding, a student may be de-registered from the programme before the 'third' semester if his academic performance is poor to the extent that the BoE deems his chance of attaining a GPA of 2.0 at the end of the programme is slim or impossible.

### **8.2 Graduate Requirements**

A student would be eligible for award if he satisfies all the conditions listed below:-

- (i) Accumulation of the requisite number of credits for the particular award, as defined in the definitive programme document; and
- (ii) Satisfying the residential requirement for at least 1/3 of the credits to be completed for the award he is currently enrolled, unless the professional bodies stipulate otherwise; and
- (iii) Satisfying all requirements as defined in the definitive programme document and as specified by the University; and
- (iv) Having a Grade Point Average (GPA) of 2.0 or above at the end of the programme; and
- (v) Satisfying other requirements as stipulated in the definitive programme document.

A student is required to graduate as soon as all the conditions for award are satisfied.

### 8.3 Guidelines for Award Classification

The following are guidelines for the Boards of Examiners' reference in determining award classifications. The BoE will exercise its judgement as to the award for each student and may use other relevant information.

Hons Degrees	All other Programmes	Guidelines	GPA or Weighted GPA (see Note)
1 <sup>st</sup>	Distinction	The student's performance/attainment is outstanding, and identifies him/her as exceptionally able in the field covered by the programme in question.	3.7+ to 4
2:i	Credit	The student has reached a standard of performance/attainment which is more than satisfactory but less than outstanding.	3.2 + to 3.7-
2:ii	Pass	The student has reached a standard of performance/attainment judged to be satisfactory, and clearly higher than the "essential minimum" required for graduation.	2.3+ to 3.2-
3 <sup>rd</sup>		The student has attained the "essential minimum" required for graduation at a standard ranging from just adequate to just satisfactory.	2.0 to 2.3-

**Note:** "+" sign denotes 'equal to and more than'; "-" sign denotes 'less than'.

A Pass-without-Honours degree award will be recommended only under exceptional circumstances. For example, the student has demonstrated a level of final attainment which is below the 'essential minimum' required for graduation with Honours from the programme in question. In such a case, though he has nonetheless covered the prescribed work of the programme in an adequate fashion, he fails to show sufficient evidence of the intellectual calibre expected of Honours degree graduates.

# **PROGRESSION PATTERN**

## PROGRESSION PATTERN

### **BSc (Hons) in Building Engineering & Management 32460**

*Total credits for the PT Building Engineering & Management Programme is 72 credits, including 9 credits for General University Requirements, and 63 credits for Discipline-Specific Requirements. Unless otherwise specified, subjects are compulsory and carry 3 credits.*

#### **Year 1** [September 2016]

##### **Semester 1**

BRE204 Structure I  
BRE263 Construction Economics & Finance  
ELC3421 English for Construction & Environmental Professionals

##### **Semester 2**

BRE302 Structure II  
CSE20290 Introduction to Geotechnology  
BRE326 Maintenance Technology & Management  
CBS3231P Chinese Communication for Construction & Environment

#### **Year 2** [September 2017]

##### **Semester 1**

BRE361 Construction Technology & Material II  
BRE3651 International Study (comparative study, 1-credit in 4 semesters from Year 2:S1 to Year 3:S1)  
BRE366 Analytical Skills & Methods (2-credits)  
GUR<sup>1</sup> CAR1, from any of the four Cluster areas<sup>3</sup>

##### **Semester 2**

BRE345 Measurement Documentation & Estimating  
BRE349 Building Services I  
BRE364 Construction Contract Law & Administration  
BRE3651 International Study (comparative study, 1-credit in 4 semesters from Year 2:S1 to Year 3:S1)  
GUR<sup>1</sup> CAR2, China-related study, from any of the four Cluster areas

##### **Semester 3**

BRE3651 International Study (comparative study, 1-credit in 4 semesters from Year 2:S1 to Year 3:S1)

#### **Year 3** [September 2018]

##### **Semester 1**

BRE350 Project Management & Procurement<sup>2</sup>  
BRE3651 International Study (comparative study, 1-credit in 4 semesters from Year 2:S1 to Year 3:S1)  
BRE4393 Temporary Work Design  
BRE453 Building Services II

##### **Semester 2**

BRE4393 Temporary Work Design (con'd from Semester 1)  
BRE462 Advanced Construction Technology  
BRE466 Capstone Project (6-credits in 3 semesters from Year 3:S2 to Year 4:S1)  
GUR<sup>1</sup> Service Learning

##### **Semester 3**

BRE466 Capstone Project (6-credits in 3 semesters from Year 3:S2 to Year 4:S1)

#### **Year 4** [September 2019]

##### **Semester 1**

BRE461 Environmental Impact Assessment  
BRE466 Capstone Project (6-credits in 3 semesters from Year 3:S2 to Year 4:S1)

##### **Semester 2**

BRE4281 Construction Engineering & Management  
BRE426 Geotechnology & Foundation Engineering

**Total credits = 72**

**Notes:**

1. General University Requirements (GUR) subjects. Among the 9-credit GUR subjects, 6-credits must be CAR subjects, 3-credits must be service learning subjects. Among the 6-credits earned from CAR subjects, 3-credits must be related to china-study, no more than 3-credits should be taken from the same cluster area.
2. BRE350 is moved to Semester 1 of Year 3 due to scheduling issue, student can take this subject in Year 1 or 2 if having no scheduling problem.
3. Those students not meeting the Language and Communication Requirements (LCR), may be required to take additional LCR subjects.
4. The Department reserves the rights to review/revise the subjects offered and time of offer.

**PROGRESSION PATTERN****BSc (Hons) in Surveying (32461)**

Total credits for the PT Surveying Programme is 72 credits, including 9 credits for General University Requirements, and 63 credits for Discipline-Specific Requirements. Unless otherwise specified, subjects are compulsory and carry 3 credits.

**Year 1** [September 2016]**Semester 1**

BRE350	Project Management & Procurement
BRE366	Analytical Skills & Methods (2-credits)
ELC 3421	English for Construction & Environment

**Semester 2**

BRE326	Maintenance Technology & Management
BRE336	Development Control Law
CBS3231P	Chinese Communication for Construction & Environment

**Year 2** [September 2017]**Semester 1**

BRE3651	International Study (1-credit in 4 semesters from Year 2:S1 to Year 3:S1)***
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*\*\*BS/QS Discipline-specific Elective Subjects*

BRE204	Structure I
BRE361	Construction Technology & Materials II
BRE363	Construction Economics

*\*\*GP/PD Discipline-specific Elective Subjects*

BRE315	Property Valuation
BRE341	Property Management I
BRE397	Property Management Accounting

**Semester 2**

BRE3651	International Study (1-credit in 4 semesters from Year 2:S1 to Year 3:S1)***
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GUR	CAR Subject 1
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*\*\*BS/QS Discipline-specific Elective Subjects*

BRE345	Measurement , Documentation & Estimating
BRE364	Construction Contract Law & Administration

*\*\*GP/PD Discipline-specific Elective Subjects*

BRE337	Property Law
BRE362	Urban Economics & Property Investment

**Semester 3**

BRE3651	International Study (1-credit in 4 semesters from Year 2:S1 to Year 3:S1)***
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**Year 3 [September 2018]**

**Semester 1**

BRE3651 International Study (1-credit in 4 semesters from Year 2:S1 to Year 3:S1)\*\*\*

GUR CAR Subject 2

*\*\*BS and QS Discipline-Specific Elective Subjects*

BRE415 Dispute Resolution

BRE453 Building Services II

*\*\*GP and PD Discipline-Specific Elective Subjects*

BRE427 Applied Property Investment

BRE4291 Real Estate Marketing

**Semester 2**

BRE369 Integrated Professional Workshop II

BRE466 Capstone Project (6-credits in 3 semesters from Year 3:S2 to Year 4:S1)

GUR<sup>1</sup> Service Learning

*\*\*BS Discipline-Specific Elective Subjects*

BRE435 Design, Adaptation & Conversion

*\*\*QS Discipline-Specific Elective Subjects*

BRE439 Engineering Contract Procedure

*\*\*GP and PD Discipline-Specific Elective Subjects*

BRE418 Real Estate Development

**Semester 3**

BRE466 Capstone Project (6-credits in 3 semesters from Year 3:S2 to Year 4:S1)

**Year 4 [September 2019]**

**Semester 1**

BRE466 Capstone Project (6-credits in 3 semesters from Year 3:S2 to Year 4:S1)

*\*\*BS and QS Discipline-Specific Elective Subjects*

BRE461 Environmental Impact & Assessment

*\*\*BS Discipline-Specific Elective Subjects*

BRE450 Building Maintenance for Sustainability

*\*\*QS Discipline-Specific Elective Subjects*

BRE440 Cost & Value Management

*\*\*GP and PD Discipline-Specific Elective Subjects*

BRE463 Business Valuation & Accounts

BRE465 Asset Management

**Semester 2**

BRE469 Integrated Professional Workshop III

*\*\*BS Discipline-Specific Elective Subjects*

BRE437 Facility Management

*\*\*QS Discipline-Specific Elective Subjects*

BRE442 Forecasting & Competition in the Built Environment

*\*\*GP Discipline-Specific Elective Subjects*

BRE436 Applied Property Valuation

*\*\*PD Discipline-Specific Elective Subjects*

BRE464 Urban Planning

**Total credits = 72**

**Notes:**

1. General University Requirements (GUR) subjects. Among the 9-credit GUR subjects, 6-credits must be CAR subjects, 3-credits must be service learning subjects. Among the 6-credits earned from CAR subjects, 3-credits must be related to china-study, no more than 3-credits should be taken from the same cluster area.
2. \*\* Surveying students are required to opt **ONE** Discipline from the 4 surveying disciplines offered by the Department.
3. \*\*\* Planning for study tour or comparative international study shall be commenced from Year 2, Semester 1. The study tour or field study shall be completed during the Summer Semester of Year 2.
4. The Department reserves the rights to review/revise the subjects offered and time of offer.