

**REGULATIONS FOR THE DEGREE OF  
BACHELOR OF ENGINEERING IN CIVIL ENGINEERING (LAW)  
(BEng[CivE-Law])**

*These regulations apply to students admitted to the BEng[CivE-Law] curriculum in the academic year 2010-2011 and thereafter.*

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

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**EL 1 Admission to the degree**

To be eligible for admission to the Bachelor of Engineering in Civil Engineering (Law) degree, candidates 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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**EL 2 Period of study**

The curriculum for the Bachelor of Engineering in Civil Engineering (Law) degree shall normally require eight semesters of full-time study, including two summer semesters of full-time study, extending over not fewer than 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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**EL3 Selection of courses**

Candidates shall select their courses in accordance with these regulations and the guidelines specified in the syllabuses before the beginning of each semester. Changes to the selection of courses may be made only during the add/drop period of the semester in which the course begins, and such changes shall not be reflected in the transcript of the candidate. Requests for changes after the add/drop period shall normally not be considered, except with the approval of the Board of the Faculty of Engineering. Withdrawal from courses beyond the designated add/drop period will not be considered, except with the approval of the Board of the Faculty of Engineering.

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**EL 4 Curriculum requirements**

To complete the curriculum, candidates shall

- (a) satisfy the requirements prescribed in UG 5 of the Regulations for the First Degree Curricula; and
  - (b) complete not fewer than 186 credits of courses, in the manner specified in these regulations and syllabuses; candidates are required to pass all core courses as specified in the syllabuses, and will have to satisfactorily complete prerequisite courses in order to enrol in a succeeding course.
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**EL 5** Candidates shall normally select not more than 36 but not less than 30 credits of courses in any one semester (except summer semester), unless otherwise permitted or required by the Board of the Faculty, or except in the last semester of study when the number of credits required to satisfy the

outstanding curriculum requirements is fewer than 30 credits. Candidates may, of their own volition, take additional credits not exceeding 6 credits in each semester, and/or further credits during the summer semester, accumulating up to a maximum of 72 credits in one academic year. Candidates may, with the approval of the Board of the Faculty, exceed 72 credits in an academic year provided that the total number of credits taken shall not exceed 216 credits. Students making up for failed credits can be permitted by the Faculty to take up to 360 credits.

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**EL 6** Candidates shall normally complete their industrial training and some courses in the summer semesters as specified in the syllabuses.

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**EL 7** Candidates with unsatisfactory academic progress may be required by the Board of the Faculty to take a reduced study load.

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**EL 8 Advanced standing**

Advanced Standing may be granted to candidates in recognition of studies completed successfully in an approved institution of higher education elsewhere in accordance with UG2 of the Regulations for First Degree Curricula. The amount of advanced credits to be granted shall be determined by the Board of the Faculty, in accordance with the following principles:

- (a) a minimum of two years of study at this University shall be required before the candidate is considered for the award of the degree; and
- (b) a minimum of 120 credits shall be accumulated through study in this University or from transfer of credits for courses completed at other institutions in accordance with UG4(d) of the Regulations for the First Degree Curricula.

Advanced credits granted shall not be included in the calculation of the cumulative GPA but will be recorded on the transcript of the candidate.

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**EL 9 Assessment and grades**

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, continuous assessment, laboratory work, field work, project reports, or in any other manner as specified in the syllabuses. Grades shall be awarded in accordance with UG8(a) of the Regulations for the First Degree Curricula.

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**EL 10** Written examinations or tests shall normally be held at the end of each semester unless otherwise specified in the syllabuses.

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**EL 11** Candidates are required to make up for failed courses in the following manner:

- (a) undergoing re-assessment/re-examination in the failed course to be held no later than the end of the following semester (not including the summer semester); or
- (b) re-submitting failed coursework, without having to repeat the same course of instruction; or
- (c) repeating the failed course by undergoing instruction and satisfying the assessments; or
- (d) for elective courses, taking another course in lieu and satisfying the assessment requirements.

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**EL 12** Candidates shall not be permitted to repeat a course for which they have received a grade D or above for the purpose of upgrading.

**EL 13** Unless otherwise permitted by the Board of the Faculty, a candidate will be recommended for discontinuation if

- (a) he/she fails to complete successfully 36 or more credits in two consecutive semesters (not including the summer semester) for one academic year, except where they are not required to take 36 credits in the two given semesters; or
  - (b) he/she fails to achieve an average Semester GPA of 1.0 or higher for two consecutive semesters; or
  - (c) he/she has exceeded the maximum period of registration specified in EL2.
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**EL 14 Absence from examination**

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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**EL 15 Award of Bachelor of Engineering in Civil Engineering (Law)**

To be eligible for the award of the Bachelor of Engineering in Civil Engineering (Law) degree, candidates shall have:

- (a) satisfied the requirements in the UG5 of the Regulations for First Degree Curricula;
  - (b) passed not fewer than 186 credits of courses, comprising
    - i) introductory courses;
    - ii) advanced courses;
    - iii) project courses;
    - iv) training courses;
    - v) internship courses;
    - vi) Chinese and English language enhancement courses;
    - vii) Common Core courses;
    - viii) all required courses as prescribed in respective curriculum; and
    - ix) Faculty elective courses.
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**EL 16 Degree classification**

The degree of Bachelor of Engineering shall be awarded in five divisions:

First Class Honours  
 Second Class Honours Division One  
 Second Class Honours Division Two  
 Third Class Honours  
 Pass

A pass list of successful candidates shall be posted on Faculty notice boards.

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**EL 17** The classification of honours shall be determined by the Board of the Faculty at its full discretion by taking into consideration the overall performance of candidates, or specifications in the syllabuses of respective programmes, and other relevant factors as appropriate.

## SYLLABUSES FOR THE DEGREE OF BACHELOR OF ENGINEERING IN CIVIL ENGINEERING (LAW)

### SYLLABUS

*This syllabus applies to students admitted in the academic year 2010-2011 and thereafter.*

#### Curriculum

The curriculum comprises 186 credits of courses as follows:

- (a) General Engineering Courses  
Students are required to successfully complete at least 24 credits of General Engineering courses.
- (b) Core Courses – Civil Engineering  
Students are required to successfully complete ALL core courses – civil engineering (78 credits), comprising 18 credits of introductory core courses and 60 credits of advanced core courses.
- (c) Core Courses - Law  
Students are required to successfully complete ALL core courses – law (24 credits).
- (d) Advanced Elective Courses – Civil Engineering  
Students are required to take at least 30 credits of advanced elective courses in civil engineering.
- (e) Elective Course  
Students are required to take 6 credits of advanced elective course(s) offered by either the Department of Civil Engineering or other department(s) within or outside the Faculty of Engineering.
- (f) University Requirements
  - (i) Students are required to successfully complete one English language course (3 credits) and one Chinese language course (3 credits)<sup>1</sup>.
  - (ii) Students are required to successfully complete at least 12 credits of courses from the University Common Core Curriculum, selecting no more than one course from each Area of Inquiry.
- (g) Internship  
Students are required to successfully complete an Internship (6 credits). The training normally takes place after their first year of study.

To be eligible for admission to the degree, a candidate shall be required to successfully complete not fewer than 186 credits from the above listed courses.

#### Degree Classification

The degree classification shall be based on the best 186 credits including the courses in (a) to (f) below:

- (a) 12 credits from University Common Core Curriculum;
- (b) At least 24 credits from General Engineering courses, including
  - (i) ENGG1002 Computer programming and applications; or ENGG1016 Computer programming and applications I; **and**
  - (ii) ENGG1003 Mathematics I or both ENGG1004 Mathematics IA and ENGG1005 Mathematics IB; **and**
  - (iii) ENGG1006 Engineering for sustainable development; **and**
  - (iv) ENGG1010 Foundations of engineering mechanics
- (c) All core courses – civil engineering; including both introductory and advanced courses;
- (d) All core courses – law;

<sup>1</sup> 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 CENG1004 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.

- (e) At least 30 credits from advanced elective courses in civil engineering;
- (f) University requirements on Language Enhancement Courses, i.e. CAES1602 Writing solutions to legal problems and CENG1004 Practical Chinese language course for civil engineering (law) students<sup>1</sup>.

### Requirement for Continuation of Study of LLB

To be eligible for admission to Bachelor of Laws (LLB), a candidate must have also taken and passed the following courses:

- LLAW1005 Law of tort I (6 credits)
- LLAW1006 Law of tort II (6 credits)
- LLAW1008 The legal system (6 credits)
- LLAW1009 Law and society (6 credits)
- LLAW1013 Legal research and writing I (6 credits)
- LLAW1012 Legal research and writing II (6 credits)
- PHIL1005 Critical thinking and logic (6 credits)

An example of the programme structure is as follows:

(a) First Year

General Engineering Courses

Computer programming and applications <b>or</b> Computer programming and applications I	6
Engineering for sustainable development	6
Foundations of engineering mechanics	6
Mathematics I <b>or</b> <i>both</i> Mathematics IA and Mathematics IB	6

University Requirements

Practical Chinese language course for civil engineering (law) students	3
Course in University Common Core Curriculum	6

Introductory Core Courses – Civil Engineering

Environmental engineering and fluid mechanics	6
Engineering mechanics and materials	6
Surveying and drawing	6
Theory and design of structures I	6

Law Courses for LLB 12

Total credits 69

Summer Semester

Internship	6
Total credits	6

<sup>1</sup> 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 CENG1004 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.

(b)	Second Year	
	<u>University Requirements</u>	
	Writing solutions to legal problems	3
	Course in University Common Core Curriculum	6
	<u>Advanced Core Courses – Civil Engineering</u>	
	Engineering mathematics II	6
	Hydraulics and hydrology	6
	Soil mechanics	6
	Theory and design of structures II	6
	<u>Law Courses for LLB</u>	30
	Total credits	63
	Summer Semester	
	<u>Advanced Core Courses – Civil Engineering</u>	
	Engineering design and communication	6
	Project	12
	Total credits	18
(c)	Third Year	
	<u>Advanced Core Courses – Civil Engineering</u>	
	Engineering geology and rock mechanics	6
	Principles of civil engineering management	6
	Advanced Elective Courses – Civil Engineering	30
	Elective course	6
	<u>Core Courses – Law</u>	
	Law of contract I	6
	Law of contract II	6
	Land law I	6
	Land law II	6
	Total credits	72

## COURSE DESCRIPTIONS

Candidates will be required to do the coursework in the respective courses selected. Not all courses are offered in every semester. Where two courses are described as “I and II” (12 credits), this means that they may either be taught separately in two semesters in the same academic year or be taught as one combined course in one semester, and may either be examined separately or at the same time.

### Level One

#### General Engineering Courses

<b>ENGG1002.</b>	<b>Computer programming and applications (6 credits)</b>
<b>ENGG1003.</b>	<b>Mathematics I (6 credits)</b>
<b>ENGG1004.</b>	<b>Mathematics IA (3 credits)</b>
<b>ENGG1005.</b>	<b>Mathematics IB (3 credits)</b>
<b>ENGG1006.</b>	<b>Engineering for sustainable development (6 credits)</b>
<b>ENGG1010.</b>	<b>Foundations of engineering mechanics (6 credits)</b>
<b>ENGG1016.</b>	<b>Computer programming and applications I (6 credits)</b>

For course descriptions, please refer to the General Engineering Courses in the syllabus of the degree of BEng for details.

## University Requirements on Language Enhancement Courses

### **CAES1602. Writing solutions to legal problems (3 credits)**

The course follows on from language input into the Legal Research and Writing I course in Year 1, Sem. 1. *Writing solutions to legal problems* dovetails closely with a substantive law course (Tort), allowing students to apply and articulate their knowledge of tort law as they frame a written response to the kinds of legal issues typically found in tutorial and examination questions. The focus is on the discourse structure of legal arguments, with attention paid to control of the grammar, vocabulary and stylistic features typical of problem solutions. Students receive substantial individual feedback on 3 problem cycles, featuring revisions of each answer. Assessment is wholly by coursework, including 1 extended piece of writing under examination conditions at the end of the course.

Assessment: 100% continuous assessment.

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### **CENG1004. Practical Chinese language course for civil engineering (law) students (3 credits)**

This course is designed for students undertaking the Civil Engineering (Law) Programme. It aims to familiarize students with different scripts of Chinese characters, office documents, the rhetorical strategies in engineering articles, and the characteristics of Chinese legal language in instructions, assessments, proposals and reports. The features of target-oriented writings for the engineering and legal professions will also be explored. The ultimate objective of the course is to sharpen students' skills in presentation, communication as well as practical Chinese writing.

Assessment: 50% continuous assessment and 50% examination.

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## University Common Core Curriculum

12 credits of courses in the Common Core Curriculum, selecting no more than one course from each Area of Inquiry:

- Scientific and Technology Literacy
  - Humanities
  - Global Issues
  - China: Culture, State and Society
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## Introductory Core Courses – Civil Engineering

**CIVL1012 Environmental engineering and fluid mechanics (6 credits)**

**CIVL1013. Engineering mechanics and materials (6 credits)**

**CIVL1014. Surveying & drawing (6 credits)**

For course descriptions, see the syllabuses of the Civil Engineering programme.

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## Advanced Core Courses – Civil Engineering

**CIVL1010. Theory and design of structures I (6 credits)**

For course descriptions, see the syllabuses of the Civil Engineering programme.

**Level Two****Advanced Core Courses – Civil Engineering**

- CIVL2001. Engineering design and communication (6 credits)**  
**CIVL2002. Engineering geology and rock mechanics (6 credits)**  
**CIVL2003. Engineering mathematics II (6 credits)**  
**CIVL2004. Hydraulics and hydrology (6 credits)**  
**CIVL2006. Soil mechanics (6 credits)**  
**CIVL2007. Theory and design of structures II (6 credits)**  
**CIVL2008. Principles of civil engineering management (6 credits)**

For course descriptions, see the syllabuses of the Civil Engineering programme.

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**Internship**

- CIVL2009. Internship (6 credits)**

For course descriptions, see the syllabuses of the Civil Engineering programme.

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**Level Three****Advanced Core Courses – Civil Engineering**

- CIVL3013. Project (12 credits)**

For course descriptions, see the syllabuses of the Civil Engineering programme.

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**Core Courses - Law**

- LLAW1001 and LLAW1002. Law of contract I and II (12 credits)\*\***

The function of contract; formation of a valid contract; offer and acceptance; capacity; illegality; finality and completeness; intention to create legal relations; interpretation of the terms of a contract; misrepresentation; mistake; duress and undue influence; privity; performance; discharge and breach; quasi-contract; remedies; principles of agency.

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- LLAW2013 and LLAW2014. Land law I and II (12 credits)\*\***

Introduction: concept of a proprietary interest; what is property law; classification of property; the nature of a trust.

Ownership, title and possession: legal ownership; title; leasehold estates in Hong Kong; ownership and possession; tenure and estates; equitable interests; possession-recovery and protection of possession; adverse possession and possessory title.

Priority: doctrine of notice; statutory intervention (e.g. land registration); subrogation.

Creation and transfer of proprietary interests in land: creation; assignment; intervention of equity (e.g. *Walsh v Lonsdale*, part performance, estoppel, constructive and resulting trusts).



Future interests: remainders and reversions: trusts for sale; vested and contingent interest; rules against inalienability.

Concurrent interests: joint tenancy and tenancy in common; ownership in multi-storey buildings; severance; termination.

Leases: nature of leases; relationship of landlord and tenant; termination; statutory intervention.

Easements: nature; creation and determination.

Licences: revocability; enforceability.

Covenants: between landlord and tenant; between adjoining and co-owners; role in use and management of land.

Security interests: mortgages; charges; pledges; liens.

Land registration and priorities.

### **Advanced Elective Courses - Civil Engineering**

<b>CIVL1011.</b>	<b>Transportation engineering (6 credits)</b>
<b>CIVL3001.</b>	<b>Advanced engineering mechanics (6 credits)</b>
<b>CIVL3003.</b>	<b>Construction project management (6 credits)</b>
<b>CIVL3006.</b>	<b>Engineering hydraulics (6 credits)</b>
<b>CIVL3007.</b>	<b>Environmental impact assessment of civil engineering projects (6 credits)</b>
<b>CIVL3008.</b>	<b>Foundation engineering (6 credits)</b>
<b>CIVL3011.</b>	<b>Municipal and industrial wastewater treatment (6 credits)</b>
<b>CIVL3012.</b>	<b>Prestressed concrete structures (6 credits)</b>
<b>CIVL3014.</b>	<b>Slope engineering (6 credits)</b>
<b>CIVL3015.</b>	<b>Solid and hazardous waste management (6 credits)</b>
<b>CIVL3016.</b>	<b>Steel structures (6 credits)</b>
<b>CIVL3018.</b>	<b>Theory and design of structures III (6 credits)</b>
<b>CIVL3021.</b>	<b>Water resources engineering (6 credits)</b>
<b>CIVL3022.</b>	<b>Wind engineering (6 credits)</b>
<b>CIVL3026.</b>	<b>Engineering practice in Mainland China (6 credits)</b>
<b>CIVL3027.</b>	<b>Professional practice in the built environment (6 credits)</b>
<b>CIVL3028.</b>	<b>Structural dynamics and earthquake engineering (6 credits)</b>
<b>CIVL3029.</b>	<b>Numerical analysis in geotechnical engineering (6 credits)</b>
<b>CIVL3030.</b>	<b>Structural fire engineering (6 credits)</b>
<b>CIVL3031.</b>	<b>Earth retaining system (6 credits)</b>
<b>CIVL3032.</b>	<b>Geotechnical testing, instrumentation and monitoring (6 credits)</b>
<b>CIVL3033.</b>	<b>Ground improvement (6 credits)</b>

For course descriptions, see the syllabuses of the Civil Engineering programme.

### **LLAW3007. Alternative dispute resolution (6 credits)\*\***

This course will examine the traditional methods of dispute resolution such as judicial adjudication, and consider alternative dispute resolution from both a Hong Kong and an Asian perspective.

This course is composed of two main parts:

- (a) an introduction to traditional methods of dispute resolution and a critique of their advantages and disadvantages; and
- (b) an examination of alternative dispute resolution methods, which will cover the following:
  - (i) the origin and development of the alternative dispute resolution movement, and
  - (ii) an in-depth study of the following methods: confidential private listening; negotiation, mediation and conciliation; arbitration; good offices/ombudsman; mini-trials/summary jury trials; private courts, dispute resolution centres and online web-based ADR schemes.

These methods of alternative dispute resolution will be examined by considering their present and potential application in Hong Kong and other parts of Asia, in such areas as: administrative complaints, commercial and construction disputes (both domestic and international), labour relations, landlord and tenant disputes and matrimonial disputes. Students will also engage in role playing exercises in simulated negotiation, mediation and arbitration with video taped assessment.

\*\* For assessment information on these courses, refer to syllabuses for the Degree of Bachelor of Laws