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</table>

*August 2012*  
*(Last update on 18 September 2012)*
COLLEGE OF SCIENCE AND ENGINEERING

Established in 1990, the College of Science and Engineering (CSE) has become renowned for setting a strong pace for excellence in research and teaching, while maintaining close and mutually beneficial links with various sectors throughout the Asia-Pacific region. The College not only strives to provide excellent higher education opportunities, but also aspires to nurture and develop individual talent using an applicable knowledge base which is always abreast of and fully supports ongoing social changes and economic advances.

The College benefits from an exceptional combination of science and engineering facilities which enables it to bring innovative skills to teaching, learning and research. Through the synergy of the various science and engineering units, the CSE achieves and maintains an interdisciplinary world that facilitates a high-standard learning environment.

On the teaching front, the College strives to instill in its students the four Is: an International outlook, an Interdisciplinary background, an Innovative approach, and Interpersonal skills. The College’s endeavours to realize the four Is are exemplified in the following:

- ubiquitous and active collaboration among the nine science and engineering academic units;
- meaningful research opportunities for undergraduate students;
- well-established placement schemes carefully aligned with students’ major studies; and
- worldwide academic partnerships and student exchange programmes.
1. **CURRICULUM STRUCTURE OF THE NEW 4-YEAR DEGREE PROGRAMME**

The new curriculum allows students to gain in-depth knowledge through major studies, and diversify their learning with Gateway Education (GE) courses, electives and optional minors.

The curriculum structure is as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Normative 4-year Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway Education</td>
<td>University English and Discipline-specific English</td>
</tr>
<tr>
<td></td>
<td>Chinese Civilization – History and Philosophy</td>
</tr>
<tr>
<td>Distributional Area Requirements:</td>
<td></td>
</tr>
<tr>
<td>(a minimum of 3 credit units from</td>
<td></td>
</tr>
<tr>
<td>each of the following three</td>
<td></td>
</tr>
<tr>
<td>distributional areas)</td>
<td></td>
</tr>
<tr>
<td>1. Arts and Humanities</td>
<td></td>
</tr>
<tr>
<td>2. Study of Societies, Social and</td>
<td></td>
</tr>
<tr>
<td>Business Organizations</td>
<td></td>
</tr>
<tr>
<td>3. Science and Technology</td>
<td></td>
</tr>
<tr>
<td>Major + College Requirement (see</td>
<td>≥ 45 credits</td>
</tr>
<tr>
<td>notes)</td>
<td>≤ 72 credits</td>
</tr>
<tr>
<td>Minor (optional)</td>
<td>15-18 credits</td>
</tr>
<tr>
<td>Free Electives</td>
<td>To fulfil the credit requirement</td>
</tr>
<tr>
<td></td>
<td>for graduation, if necessary</td>
</tr>
<tr>
<td>Minimum credit units for graduation</td>
<td>120 credits, depending on the major</td>
</tr>
<tr>
<td>Maximum credit units for graduation</td>
<td>144 credits</td>
</tr>
</tbody>
</table>

**Notes:**

1. Students whose entry qualification in English/Chinese is below Level 4 in HKDSE English Language/Chinese Language are required to take additional language courses.
2. Major and college requirements should not exceed 72 credits. However, with Senate's approval, colleges and schools may set a higher limit to meet professional accreditation requirements.
2. COMMON FIRST-YEAR AND MAJOR OPTIONS

Students admitted to the normative 4-year degree programme will study a broad range of Gateway Education (GE) courses together with core-curricular courses designed by the College. At the end of the first year, the top 20% of students upon completion of the first-year curriculum (based mainly on their Cumulative Grade Point Average (CGPA) at the end of Semester B, and with no failed course) will have a free choice of majors offered by the College through their respective admission routes. The other 80% of students will be allocated to a major of their choice, subject to the availability of places.

**Engineering Route**

**Major Options**
- Bioengineering
- Building Services Engineering
- Civil and Structural Engineering
- Computer Engineering
- Computer Science
- Construction Engineering and Management
- Electronic and Communication Engineering
- e-Logistics and Technology Management
- Industrial Engineering and Engineering Management
- Information Engineering
- Manufacturing Systems Engineering
- Materials Engineering
- Mechatronic Engineering
- Nuclear and Risk Engineering
- Total Quality Engineering

**Science Route**

**Major Options**
- Applied Biology
- Applied Chemistry
- Applied Physics
- Computing Mathematics
- Surveying

*The Major in Environmental Science and Management is available to students admitted via the School of Energy and Environment.*

3. MODE OF ATTENDANCE AND DURATION

Normally 4 years full-time
4. FIRST-YEAR CURRICULUM

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
<th>Offered in Sem A</th>
<th>Offered in Sem B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway Education</td>
<td>GE1401 &amp; GE2401/GE2410</td>
<td>University English &amp; Discipline-specific English - English for Science/ - English for Engineering</td>
<td>3 + 3</td>
<td>✔ GE1401 (Pre-assigned)</td>
<td>✔ GE2401/GE2410 (Pre-assigned)</td>
</tr>
</tbody>
</table>

Students with English entrance qualification below the requirement are required to take EL0200 English for Academic Purposes (6 credit units) before taking GE English.

--- Gateway Education courses 9 ✔ ✔

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
<th>Offered in Sem A</th>
<th>Offered in Sem B</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Requirement (15 credit units)</td>
<td>MA1200/MA1300</td>
<td>Calculus and Basic Linear Algebra I/Enhanced Calculus and Linear Algebra I</td>
<td>3</td>
<td>✔ MA1200 (Pre-assigned)</td>
<td></td>
</tr>
<tr>
<td>Computing</td>
<td>MA1201/MA1301</td>
<td>Calculus and Basic Linear Algebra II/Enhanced Calculus and Linear Algebra II</td>
<td>3</td>
<td>✔ MA1201 (Pre-assigned)</td>
<td></td>
</tr>
<tr>
<td>Computing</td>
<td>CS1102/CS1302</td>
<td>Introduction to Computer Studies/Introduction to Computer Programming</td>
<td>3</td>
<td>✔ CS1102 (Pre-assigned in either Sem A or B)</td>
<td>✔ CS1102 (Pre-assigned in either Sem A or B)</td>
</tr>
</tbody>
</table>

Choose two from the following three subject areas (6 credit units):

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
<th>Offered in Sem A</th>
<th>Offered in Sem B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>AP1201</td>
<td>General Physics I</td>
<td>3</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Chemistry</td>
<td>BCH1100</td>
<td>Chemistry</td>
<td>3</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Biology</td>
<td>BCH1200</td>
<td>Discovery in Biology</td>
<td>3</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Total:** 30

* Students whose entry qualification in English is below Level 4 in HKDSE English Language are required to take EL0200 English for Academic Purposes.

# Students may refer to [www.cityu.edu.hk/ge](http://www.cityu.edu.hk/ge) for the list of GE courses on offer.

^ For courses that have not been pre-assigned, students are required to register them on web during the add/drop period.
5. **KEY POINTS IN ACADEMIC REGULATIONS**

Students should observe the University’s Academic Regulations for 4-year Undergraduate Degrees at all times. Please refer to the website of Academic Regulations and Records Office (ARRO) ([www.cityu.edu.hk/arro](http://www.cityu.edu.hk/arro)) for more information. Some key points are extracted below for students’ reference.

### 4. Degree Requirements

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>The minimum graduation requirement for a bachelor’s degree is 120 credit units, subject to the requirements of individual colleges/schools. Students may take additional courses exceeding the minimum graduation requirement, but the maximum number of credit units completed should not exceed 144.</td>
</tr>
<tr>
<td>4.2</td>
<td>Of the required graduation units, all students must complete a major and satisfy the requirement for Gateway Education (GE) courses, University language requirements, and any other requirements stipulated by the University and the cognizant academic unit, with the balance to be fulfilled by minor(s) or free electives.</td>
</tr>
<tr>
<td>4.3</td>
<td>Double counting of courses is permissible only between the major/minor requirement and college/school requirement. However, the credit units would count only once toward the total credits on graduation for the student, regardless of the number of requirements the course serves to fulfil.</td>
</tr>
</tbody>
</table>
| 4.4     | **College/School Requirement**

Individual colleges/schools have established additional requirements for completion of a degree. Waiver or partial waiver from the college/school requirement may be granted by the college/school to students admitted with advanced standing. |
| 4.5     | **Major**

4.5.1 Students must pursue at least one area of knowledge in depth through completion of the requirements for a major with a minimum of 45 credit units. This minimum, plus any college/school requirement, should not exceed 72 credit units. However, the college/school may set a higher limit to meet the requirements of professional accreditation with Senate’s approval. |

4.5.2 A major may be sub-divided into streams to designate the specialties of the subject discipline. Students may select one or more streams in the major as provided in the curriculum, subject to fulfilment of any stipulated conditions. |
| 4.6     | **Double Major**

4.6.1 Students may declare a double major no later than the end of their third year of study in accordance with the procedures announced by the University, and subject to attainment of a minimum CGPA of 2.70 and fulfilment of any.
other stipulated conditions, as well as approval by the Heads of the academic units offering the two majors. Normally, the first declared major should be the students’ home major.

4.6.2 Students are required to fulfil the degree and curriculum requirements associated with the home major and the curriculum requirements for the second major. Some overlap in the courses required for the two majors is allowed provided that at least 30 credit units in new courses are completed for the second major.

4.6.3 Students who cannot complete their second major but have fulfilled the degree and curriculum requirements for the home major may still apply for graduation. The completed courses from the unfulfilled second major may be counted toward the degree as free electives or used for fulfilling requirements for a minor as appropriate.

4.6.4 Students who cannot complete their second major within the maximum credit limit of 144 may still continue to pursue the double major. Any further course registration after completion of 144 credit units must be self-financed.

4.7 Minor

4.7.1 Students have the option of completing the requirements for minors. A minor requires 15 to 18 credit units. Credits earned to fulfil the minor requirement cannot be used toward meeting the requirement for a major and/or other minor(s) taken by the student.

4.7.2 Students should file a declaration of their minor(s) in accordance with University procedures. Application for minor awards should be submitted together with the application for graduation, and all requirements for the minor(s) should be met by the time of graduation.

4.7.3 Students who cannot complete their declared minor(s) but have fulfilled their degree requirements can still graduate. The completed courses concerned may be counted toward the degree as free electives as appropriate.

4.8 Gateway Education (GE) Courses

4.8.1 To fulfil their degree requirements, students must complete a minimum of 30 credit units of Gateway Education courses in accordance with the following requirements prescribed by the University:

(i) University Requirements (nine credit units): English (six credit units) and Chinese Civilization - History and Philosophy (three credit units); and

(ii) Area Requirements (21 credit units) in the following three broad areas: Arts and Humanities; Study of Societies, Social and Business Organizations; and Science and Technology. Students must take a minimum of three credit units in each of the three areas.
4.8.2 Gateway Education courses cannot be prescribed as prerequisites for enrolling in any major or minor.

4.9 **Free Electives**

Students may choose free electives to fulfil their degree requirements, and must do so if their cumulative credit load is below 120 credit units.

4.10 **English Language Requirement**

To fulfil the English Language Requirement, students should complete the required Gateway Education English courses under the category of “University Requirements” mentioned in AR4.8.1(i). Students whose level of attainment in the English language subject of their entry qualifications is below a specified grade/level as determined by the University are required to complete the English for Academic Purposes course (no credit units toward graduation requirements) prior to taking the aforementioned Gateway Education English courses.

4.11 **English Attainment Requirement**

To ascertain students’ level of English proficiency, all students should fulfil the English Attainment Requirement upon graduation as specified by Senate.

4.12 **Chinese Language Requirement**

Depending on the entry qualifications and the level of attainment in the Chinese language subject as determined by the University, students may be required to take one or more additional Chinese courses and/or major-specific Chinese courses in fulfilment of the Chinese Language Requirement.

5. **Double Degree**

5.1 Students may declare a double degree no later than the end of their third year of study in accordance with the procedures announced by the University. Subject to attainment of a minimum CGPA of 3.30 and fulfilment of any other stipulated conditions, as well as approval by the Dean(s) of the college(s)/school(s) offering the two degrees, such students will pursue a concurrent study of two degrees (one of which is to be the degree for the home major) in accordance with the specified double degree combinations approved by the University.

5.2 Attainment of a double degree requires a minimum of 165 credit units. Some overlap in the courses required for the two degrees is allowed provided that at least 45 credit units in new courses are completed for the second degree. Apart from fulfilling all the specified requirements for both degrees, including the college/school requirements for both degrees as appropriate, students may be required to fulfil any other extra requirements stipulated by the college(s)/school(s) concerned.

5.3 Additional credits exceeding 144 credit units required for studying a double degree must be self-financed.
5.4 Students who cannot complete a double degree but have fulfilled the requirements for a single degree may still apply for graduation. The completed courses from the unfulfilled degree may be counted toward the completed degree as free electives or used for fulfilling requirements for a second major or a minor as appropriate.

7. **Course Registration**

7.1 Students registering for courses must follow the instructions issued by the University.

7.2 Registration for some courses is restricted to students holding the necessary prerequisites.

7.3 The University reserves the right to restrict registration in courses, or permit registration only on a priority basis.

7.4 Students can add or drop a course during the add/drop period prescribed by the University. Requests for late add/drop of courses require approval by the course-offering academic unit.

7.5 If students remain registered for a course after the last date for dropping the course, as determined by the University, they will be assigned an X grade representing the late drop of the course.

7.6 Students intending not to register in any courses in a semester but who will subsequently continue their study should apply for a leave of absence no later than the end of the course add/drop period.

7.7 Students will be restricted from registration in a course when they have earned credit units for an exclusive course.

7.8 Under exceptional circumstances where a required course cannot be completed, a “substitute” course may be approved by the Dean of the major/minor-offering academic unit for a student replacing the required course with another.

7.9 Credit units earned for courses at a level below the bachelor’s degree level are not normally counted toward requirements for an award.

7.10 Students who have applied for graduation and fulfilled the degree requirements in the specified graduation semester/term; or completed the maximum credit units allowed for a degree (except for students pursuing a double major paying the additional credits exceeding the maximum credit limit on a self-financed basis); or reached their maximum period of study, cannot register for further courses in subsequent semesters/terms.
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.</td>
<td><strong>Maximum and Minimum Credit-Unit Load</strong></td>
</tr>
<tr>
<td>10.1</td>
<td>In each semester, except the Summer Term, full-time students must register for courses summing to a total of at least 12 credit units, and for not more than 18 credit units; and part-time students must register for courses summing to a total of no more than 11 credit units.</td>
</tr>
<tr>
<td>10.2</td>
<td>In the Summer Term, students may register for courses but the total load must not exceed seven credit units.</td>
</tr>
<tr>
<td>10.3</td>
<td>Except where special arrangements are made, students seeking an exception to AR10.1 or AR10.2 should apply in writing for approval by the Head of the home academic unit.</td>
</tr>
<tr>
<td>11.</td>
<td><strong>Duration of Study</strong></td>
</tr>
<tr>
<td>11.1</td>
<td>Students may take a leave of absence from their studies for an approved period. Periods of approved leave of absence may not be less than one full semester, and may not accumulate to more than four semesters. Applications for leave of absence should be submitted for approval by the Head of the home academic unit.</td>
</tr>
<tr>
<td>11.2</td>
<td>Students shall, irrespective of their mode of study, complete all the degree requirements within the stipulated maximum period of study (i.e., eight years for normative 4-year degree, six years for Advanced Standing I, and five years for Advanced Standing II), inclusive of any change of majors, periods of leave of absence and suspension of studies. The maximum period of study for individual double degrees shall be stipulated by the cognizant academic units.</td>
</tr>
<tr>
<td>11.3</td>
<td>Students who cannot complete all the degree requirements for graduation within the maximum study period will be required to discontinue their studies. Requests for extension of study beyond the maximum study period will not be granted.</td>
</tr>
<tr>
<td>12.</td>
<td><strong>Withdrawal of Study</strong></td>
</tr>
<tr>
<td>12.</td>
<td>Students who wish to withdraw from studies should submit a withdrawal notification to the University. Withdrawal will normally take effect from the date of submission of the notification. However, notification submitted during or after the examination period will take effect only from the following semester/term.</td>
</tr>
<tr>
<td>13.</td>
<td><strong>Termination of Study</strong></td>
</tr>
<tr>
<td>13.1</td>
<td>The University has the right to terminate a student’s study for failure to maintain satisfactory academic progress as determined by the Examination Board or to comply with the policies and procedures of the University.</td>
</tr>
</tbody>
</table>
13.2 For termination of studies due to academic reasons, students may apply for readmission to continue their studies, with readmission to any degree study occurring no earlier than one academic year after the termination. Upon readmission after termination of study, students may be given the opportunity for one additional course repeat in each failed course to recover failure(s) as appropriate.

14. Assessment

14.1 The award of any degree qualification shall be based on a student’s performance in such examinations or other tests of learning or ability which have been approved by the University for the courses constituting the degree and award concerned.

14.2 Grading of Courses

14.2.1 Courses are graded according to the following schedule:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Point</th>
<th>Grade Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>Excellent: Strong evidence of original thinking; good organization, capacity to analyze and synthesize; superior grasp of subject matter; evidence of extensive knowledge base.</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>Good: Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>Adequate: Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>Marginal: Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>Failure: Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited, or irrelevant use of literature.</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>Pass: “Pass” in a pass-fail course. Courses to be graded on a pass-fail basis are specifically identified in the course catalogue.</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Note: A grade with an asterisk (e.g. B+*) is excluded in the calculation of GPA and will not be counted toward the minimum credit requirement for graduation.]
14.2.2 The following grades are used for operational purposes:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>In Progress: An IP grade is shown where students will register for the same course in subsequent semesters to complete the assessment of the course.</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete: A grade of incomplete may be granted (i) where there are extenuating circumstances that have prevented a student from completing required work, or attending the examination; (ii) at the discretion of the Assessment Panel. Where an “I” grade is assigned, the Assessment Panel will approve a schedule for the completion of work, or a supplementary examination. An “I” grade will be converted into an “F” grade four weeks after the “I” grade is first reported, unless an alternative grade has been assigned.</td>
</tr>
<tr>
<td>TR</td>
<td>Credit Transfer: Assigned when a student is granted transfer credits for the course.</td>
</tr>
<tr>
<td>Z</td>
<td>Exemption: Assigned when a student is exempted from the course.</td>
</tr>
<tr>
<td>AU</td>
<td>Audit: An audited grade is assigned when an auditing student has completed the conditions established at registration as an auditor. No assessment is made or grade awarded for auditing.</td>
</tr>
<tr>
<td>X</td>
<td>Late Drop: Assigned when a student is permitted to drop the course after the normal drop date.</td>
</tr>
<tr>
<td>WD</td>
<td>Withdrawn: Assigned when a student has registered for the course in a semester/term and subsequently submitted a notification of withdrawal from the University.</td>
</tr>
</tbody>
</table>

14.2.3 Students assigned a grade of D or better, or a Pass grade in a pass-fail course, earn credit units for the course. Grades of F, IP, I, Z, AU, X and WD do not earn credit units.

14.2.4 Grades of P, IP, I, TR, Z, AU, X and WD are not counted in the calculation of a student’s CGPA. Grades of F are counted, unless the fail is recovered under AR14.4.

14.2.5 Grades of P, IP, I, TR, Z, AU, X and WD are not counted in the calculation of a student’s SGPA.
### 14.3 Students’ Academic Progress and Academic Standing

14.3.1 Academic standing provides an indicator of the student’s academic progress and identifies students in academic difficulty needing academic advising and extra help. The four levels of academic standing are defined as follows:

<table>
<thead>
<tr>
<th>Standing</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Standing</td>
<td>Students are making satisfactory academic progress.</td>
</tr>
<tr>
<td>Academic Warning</td>
<td>Students’ most recent academic performance has been unsatisfactory, or their overall academic average is below minimum requirements. Students on warning should seek advice from their academic advisor.</td>
</tr>
<tr>
<td>Probation</td>
<td>Students’ most recent academic performance has been extremely unsatisfactory, or their overall academic average has continued to be below the minimum requirements for graduation. The academic advisor may require students on Probation to take a reduced credit unit load in the following semester.</td>
</tr>
<tr>
<td>Academic Suspension</td>
<td>Students who cannot benefit from course registration in the next semester may be suspended for an approved period of not less than one semester. Academic Suspension is designed to provide students with an opportunity to resolve the problems that are preventing them from making academic progress. On return from their suspension, students may be given the opportunity for one additional course repeat in each failed course to recover failure(s) as appropriate.</td>
</tr>
<tr>
<td>Operational Standing</td>
<td>Review</td>
</tr>
<tr>
<td></td>
<td>A temporary status indicating that a student’s performance may require a change of academic standing and has been referred to the student’s home academic unit.</td>
</tr>
</tbody>
</table>
14.3.2 In accordance with the following rules approved by Senate, a decision on academic standing is made for all students at the end of Semester A and Semester B:

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>SGPA</th>
<th>CGPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good standing</td>
<td>Good standing</td>
<td>1.70 or above</td>
<td>and 1.70 or above</td>
</tr>
<tr>
<td>Academic warning</td>
<td>1.00 or above but below 1.70</td>
<td>and 1.00 or above</td>
<td></td>
</tr>
<tr>
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<td>Academic warning</td>
<td>Good standing</td>
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<td>and 1.70 or above</td>
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<tr>
<td>Academic warning</td>
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<td>Academic suspension</td>
<td>Review</td>
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<td>or Below 1.70</td>
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14.3.3 In making decisions on students’ academic standing, the Examination Board has the right, upon the recommendation of the students’ home academic unit, to make exceptions from the above rules.

14.3.4 If so required by the Examination Board, an academic standing decision may also be specially determined for a particular student at the end of the Summer Term.

14.4 Repeating Courses to Improve Grades

Unless otherwise specified, students may repeat a course, or an equivalent course, to recover a failure or to improve a course grade of D. After the first attempt, only two repeat attempts are permitted. Course grades for all attempts will appear on the student’s academic transcript, but only the final grade earned will be included in the calculation of the student’s CGPA.

14.5 Illness or Other Circumstances Related to Assessment

14.5.1 A student who believes that his/her ability to attend an examination, or in-course assessment with a weighting of 20% or above, has been adversely affected by circumstances beyond his/her control must submit the case, with documentary evidence, to his/her home academic unit following the procedures stated on the University website, as soon as possible and no later than 5 working days of the scheduled date for completing the affected examination or assessment.
14.5.2 The home academic unit of the student will investigate the case, in consultation with the course-offering academic unit. Only compelling reasons such as illness, hospitalization, accident, family bereavement or other unforeseeable serious personal or emotional circumstances will be considered. The decision of the home academic unit is final.

14.5.3 If the case is justified and substantiated, the decision will be conveyed to the Assessment Panel which will determine whether to offer the student a make-up examination or coursework or other alternative assessment. Where assessments for more than one course are affected, it is the responsibility of the home academic unit to inform all relevant Assessment Panels. The Assessment Panel may also adjust the grade of the student if deemed appropriate.

14.6 Dean’s List

At the end of Semester A and Semester B, or for part-time students on the completion of the second of these two semesters, students’ GPAs are calculated. Where a student over that period has (i) earned 12 credit units or more, (ii) achieved a GPA of 3.70 or above, and (iii) not failed any course, the student is placed on the Dean’s List.

16. Application for Graduation and Requirements for Awards

16.1 Each academic year has three graduation dates as set by Senate. Students should file an application for graduation during their final year of study in accordance with the procedures announced by the University.

16.2 Students who have applied for graduation but do not successfully complete all their academic requirements by the end of the intended graduation semester/term must reapply for graduation for the following cycle.

16.3 In order to be awarded a degree, a student shall:

(i) complete the minimum credit unit requirements for the degree;
(ii) achieve a CGPA of 1.70 or above; and
(iii) fulfil other requirements stipulated in the University’s regulations and procedures.
17. **Conferment and Classification of Awards**

17.1 The University offers the following undergraduate degrees with honours: Bachelor of Arts, Bachelor of Arts and Science, Bachelor of Business Administration, Bachelor of Engineering, Bachelor of Laws, Bachelor of Science, and Bachelor of Social Sciences.

17.2 The degree awarded to students will be determined by the student’s home major. The award title to be shown on the student’s award certificate will be the degree and the major. If a student has completed a double major, the home major and the second major will be shown on the award certificate in sequence. For students who have completed a double degree, the two degree designations will appear on one award certificate.

17.3 University awards are classified by the relevant College/School Examination Board, which makes a recommendation to Senate for the conferment of awards.

17.4 The University grants bachelor’s degree awards with the following classifications:

   (i) First Class Honours  
   (ii) Upper Second Class Honours  
   (iii) Lower Second Class Honours  
   (iv) Third Class Honours  
   (v) Pass

17.5 The various classifications are based on the CGPAs. The general guidelines are as follows:

<table>
<thead>
<tr>
<th>Classification of Award</th>
<th>CGPA</th>
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<tbody>
<tr>
<td>First Class Honours</td>
<td>3.50 or above</td>
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<tr>
<td>Upper Second Class Honours</td>
<td>3.00 – 3.49</td>
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<td>Lower Second Class Honours</td>
<td>2.50 – 2.99</td>
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<td>Third Class Honours</td>
<td>2.00 – 2.49</td>
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<tr>
<td>Pass</td>
<td>1.70 – 1.99</td>
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17.6 The above guidelines also apply in determining the classification of awards for a double degree, and the classifications to be awarded should be endorsed by both the College/School Examination Boards concerned.

17.7 In all cases of classification of awards, the CGPAs cited above are indicative. The Examination Board has the right, upon the recommendation of the respective academic unit, to make exceptions in the application of the indicative GPAs.

17.8 College/School Examination Boards classify awards with regard to, but not necessarily in strict conformity with, a student’s CGPA.
6. OTHER REGULATIONS

Besides the Academic Regulations, students should also familiarise themselves with the following regulations and guidelines which are published on the website of ARRO:

- Code of Student Conduct and Disciplinary Procedure
- Rules Governing Enrolment of Local and Non-local Students
- Rules on Student Identity Card
- Structure of University Academic Programmes
- Student Complaints Procedure
- Illness or other Circumstances Affecting Assessment
- Regulations on Tuition Fees

7. ACADEMIC HONESTY

Students must pursue their studies with academic honesty. Academic honesty is central to the conduct of academic work. Students are expected to present their own work, give proper acknowledgement of other’s work, and honestly report findings obtained. As part of the University’s efforts to educate students about academic honesty, all students are expected to complete an online tutorial on academic honesty and make a declaration on their understanding of academic honesty.

**Plagiarism is a serious offence** involving “the use of somebody else’s ideas, words, etc. as one’s own”. Examples of such acts are copying other students’ work in examinations, tests, or coursework assignments, repetition of part or whole sentences/paragraphs/any materials from hard-copy publications or online sites for one’s own use **without acknowledgement of the source in one’s work**.

Students who commit an act of academic dishonesty which jeopardizes the integrity of the learning and assessment process may be charged with a Major Offence and be liable to disciplinary action.

Students are advised to refer to “Rules on Academic Honesty” (www6.cityu.edu.hk/ah/) under the section on “Regulations & Guidelines” of the website of ARRO for details.
8. ACADEMIC ADVISING

Under the 4-year degree structure, CSE adopts a college-based admission, and all first-year students will take a common first-year curriculum. To ease their transition to a new environment, and to provide academic advice for freshmen on their choices of major, academic advising plays a vital role in enhancing students’ overall learning experience at CityU.

8.1 Academic Advisors

Academic advisors are expected to keep in contact with their student advisees regularly (e.g. via emails or other means), and to have at least two meetings per semester with them, one for course selection and another for review of university life.

Roles of academic advisors:

- building rapport with the students, and serving as a bridge that connects them to the College and departments;
- helping students to consider and clarify their intellectual, professional and personal goals;
- helping students to develop an appropriate study plan (particularly with regard to their major), and assisting in their selection of appropriate courses to achieve their identified goals;
- advising students on academic regulations and requirements, particularly those relating to the major;
- identifying students with special learning needs or early signs of learning problems, and referring/encouraging them to seek help or support; and
- being accessible and available to students, and responding to their questions and concerns.
8.2 Student Mentors

Student mentors are expected to have at least eight hours of contact with the mentees in a semester.

Roles of student mentors:

- assisting mentees to adjust to the university life by sharing their precious study experience;
- sharing with mentees the issues related to their personal growth, career development and personal pursuits;
- helping mentees to acquire social and interpersonal skills;
- organizing and participating in mentor activities proactively; and
- being accessible and available to students, and offering help to them whenever necessary.

8.3 Responsibilities of Advisees in Student Advising

Effective student advising requires an active participation of student advisees in the process. It is important that students understand it is their responsibilities to:

- understand the academic regulations and common first-year curriculum, as well as the requirements of their chosen major;
- actively obtain information, and consult advisors on a regular basis and as needed; and
- take the final responsibility for making decisions and choices regarding their academic study based on the information and advice given.
8.4 Student Development Services (SDS)

The SDS offers many student-centred services to students. It provides support and assistance for students in the following areas:

- Attainment of an all-round development
- Enrichment of campus life
- Development of career plans and choices
- Solving personal problems
- Enhancement of physical and mental well-being
- Provision of financial assistance
- Scholarship application
- Welfare provisions

The SDS administers a Whole Person Development Award Scheme which is established to encourage students to take positive and systematic steps to pursue whole person development. Students’ participation and involvement in student activities or extra-curriculum training programmes will add scores leading towards the Award. For details of the Scheme, please visit www.cityu.edu.hk/sds/wpd/index.htm.
9. INFORMATION FOR NEW STUDENTS

9.1 How to access your personal class schedule
i) Go to CityU home page (www.cityu.edu.hk) from any terminal on campus or off campus.
ii) Click “Students” and then log onto “e-Portal/Blackboard”. *If you have problems in logging in, please follow the instructions in “Having problems logging in?”.*
iii) Select “View Student Schedule” under the “Courses I am taking” box.
iv) Press the “View Detail Schedule” button at the bottom of your timetable to display details of your class schedule.

9.2 How to get instructors’ handouts through Blackboard
i) Log onto the CityU e-Portal from any terminal on campus or off campus.
ii) Enter the course under “My Courses”
iii) Click “Current Semester Courses” or “Other Courses”.

9.3 How to check curriculum requirements and course syllabuses
Go to CityU home page (www.cityu.edu.hk) and click “Academic Programmes”.

9.4 Course registration for 2012-2013
i) For 2012-2013, students will be pre-registered in some of the required courses. Please refer to page 4 for details.
ii) The web registration period for Semester A will start from **20 Aug and end on 15 September** but you need to check your time ticket from “AIMS”.
iii) Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your pre-registered courses **after consulting your academic advisors**.
iv) Add/Drop of courses can be made through AIMS for web-enabled courses during the web registration period. For non-web-enabled courses, endorsement is required from the academic advisors and the course-offering departments before submitting the change request using the Add/Drop Form.
v) For details on course registration arrangements for 2012-2013, please refer to ARRO website [www.cityu.edu.hk/arro/crsreg/](http://www.cityu.edu.hk/arro/crsreg/).
How to access your student email account

i) Go to www.cityu.edu.hk from any terminal on campus or off campus and click “Students”.

ii) Click “Email” and then “@student.cityu.edu.hk”.

iii) Enter your student number as username and password.

iv) Then you can read or compose email.

Important notes:

- For email communication, please state your name, student number and contact telephone number.
- Always check and clear your email account, and make sure it does not exceed the quota (a maximum of 50M).

9.6 Administrative Support from the General Office of College of Science and Engineering

Address : B6518, 6/F, Academic 1 (Blue Zone)
Service Hours : Mondays to Fridays
                9:00 am - 12:30 pm
                2:00 pm - 5:30 pm
Telephone : (852) 3442 4133
Fax : (852) 3442 0293
Email : seoffice@cityu.edu.hk
Website : www.cityu.edu.hk/cse
Appendix I: Academic Calendar
# Academic Calendar 2012/2013

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Prepared by ARRO/30 Sept 2011
### Provisional Academic Calendar 2013-2014

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### Notes:
- Square represents public holidays including all Sundays
- "#" marks dates that are applicable to all new intakes admitted to bachelor's degrees and associate degrees in 2012/13 (including HKALE, HKDSE and students holding other qualifications). There is no revision week for them in Semester A 2012/13.

### Provisional Academic Calendar 2013-2014

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<tr>
<th>Semester A</th>
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### Provisional Academic Calendar 2014-2015

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<td>Term Break</td>
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Appendix II: Majors
Bioengineering

Award title: Bachelor of Engineering (Hons) in Bioengineering

Indicative intake no.: 40

Major leader: Prof. Dong SUN
Email: medsun@cityu.edu.hk
Tel: 3442 8405

General enquiry: Department of Mechanical and Biomedical Engineering
Email: mbego@cityu.edu.hk
Tel: 3442 8420

Remarks: New major introduced in 2012/13

1. Aims of the Major

This Major aims to pursue excellence in education, research, and innovation through the fusion of engineering with life sciences for the advancements of human health. The objectives of the Major are to provide integrative educational opportunities that allow students to learn passionately how to think critically and independently, and innovate creatively so that they can be well prepared for the following:

- Professional employments in areas such as the medical device industry, medical diagnostics engineering and public health consulting, food safety and bio-security testing, and advancement of various biotechnologies.
- Contribution to community and professional groups using the unique competencies provided by the bioengineering educational experiences.

2. What You Will Be Studying

The curriculum has been categorized into four main areas:

**Technical Foundation courses:**
Electrical and Electronic Principles, Thermo and Fluid Dynamics, Biomechanics, Biomaterials, Electromagnetics, Engineering Principles and Design, Microbiology, Database Systems

**Medical Devices and Systems:**
Bioengineering Measurement, Medical Imaging and Signal Processing, Micro and Nanotechnology for Bioengineering, Computational Biology and Bioinformatics, Biomedical Instrumentation, Biosensors and Devices, Biomedical Systems and Control

**Cell and Molecular Engineering:**
Molecules and Cells, Genetics and Proteomics for Bioengineering, Tissue Engineering, Cell Transport and Signalling, Technology for Regenerative Medicine
Health and Wellness Technology:

Integrated courses include Bioengineering Design Project, Professional Engineering Practice, Quality Engineering, and Project Management

3. Professional Accreditation

The Major is designed to meet the accreditation requirements of the Hong Kong Institution of Engineers, a signatory member of the Washington Accord, under which all members agree to recognize each other's accredited engineering degree programmes.

4. Career Prospects

Upon graduation, students will find career opportunities in engineering services, public health consulting, government departments, laboratories and the commercial, educational sectors, or they can pursue postgraduate studies. After taking this major, students will possess expertise that will meet the needs from the increasing public concerns on food safety and quality, and bio-security, demands for advancements in pharmaceutical and health maintenance products, and medical diagnostics and therapeutic treatments, as well as the awareness for human health and wellness.

5. Bonus Features

The College of Science and Engineering and the Department of Mechanical and Biomedical Engineering offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

- gain solid experience in a real-life working environment;
- develop problem solving ability and interpersonal skills;
- learn the right attitudes towards work and professionalism; and
- broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre (www.cityu.edu.hk/cse/cec).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
Building Services Engineering

Award title: Bachelor of Engineering (Hons) in Building Services Engineering

<table>
<thead>
<tr>
<th>Indicative intake no.:</th>
<th>31</th>
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**Major leader:**
Dr LI Danny Hin-wa  
Email: bcdanny@cityu.edu.hk  
Tel: 3442 7063

**General enquiry:**
Department of Civil and Architectural Engineering  
Email: caddept@cityu.edu.hk  
Tel: 3442 7609

1. **Aims of the Major**

The Major aims to:

- bring matriculated or equivalent students up to an academically qualified level of a professional building services engineer;

- equip students with the knowledge of design, manufacturing, installation, commissioning and maintenance of mechanical and electrical services in buildings;

- produce generalists in building services engineering who are able to deal with all aspects within the discipline such as electrical, mechanical or electronic engineering; and

- provide students with the concept of full integration between the various disciplines within building services engineering and in particular, the importance of integration between building services engineering with other trades within the building industry, i.e. architecture, surveying, building, and property management.

2. **What You Will Be Studying**

Core courses to be studied in the Major include:

- Electrical and Thermal Science
- Environmental Science
- Fluids
- Mathematics
- Industrial Training
- Fire and Plumbing Services
- Heating, Ventilating and Air-conditioning Systems
- Management
- Professional Ethics and Safety
- Building Electronics
- Electrical and Fire Engineering
- Vertical Transportation
3. **Professional Accreditation**

   This Major has been accredited by the Hong Kong Institution of Engineers.

4. **Career Prospects**

   Building services engineering consulting firms, contracting firms and government departments, including Electrical and Mechanical Services Department and Architectural Services Department.

5. **Bonus Features**

   Study tours, overseas exchange and Industrial Attachment Scheme.
Civil and Structural Engineering

Award title: Bachelor of Engineering (Hons) in Civil and Structural Engineering
土木及結構工程榮譽工學士

Indicative intake no.: 17

Major leader: Dr WU Yufei
Email: yfwu00@cityu.edu.hk
Tel: 3442 4259

General enquiry: Department of Civil and Architectural Engineering
Email: cadept@cityu.edu.hk
Tel: 3442 7609

1. **Aims of the Major**

The Major aims to provide students with an environment to develop their intellectual, analytical and critical abilities, and to enable them to become competent, skilled, reflective new members of civil and structural engineering profession; with well-developed discipline knowledge who will communicate effectively; contribute through team and individual application of skills and knowledge to resolving problems; with a commitment to lifelong learning; and leadership in the civil and structural professions. It also provides a basis for continuing professional development, and encouragement for professional specialization or higher academic study.

In addition, the Major further provides a suitable foundation for the educational development, within an academic environment, in order that students may reach their maximum potential. This foundation is achieved by attaining a balance among the intellectual, professional and practical constituent elements; fostering an attitude of enquiry, confidence, innovation and professionalism; enhancing proficiency in communication and cultivating cultural sensitivity.
2. What You Will Be Studying

Some of the courses to be studied in the Major include:

- Calculus and Linear Algebra
- Construction Communication
- Construction Materials
- Construction Technology
- Structural Mechanics
- Engineering Analysis
- Engineering Surveying
- Design of Structural Elements
- Structural Analysis
- Reinforced and Prestressed Concrete Structures
- Geology and Rock Mechanics
- Soil Mechanics and Engineering Applications
- Transportation
- Hydraulics and Hydrology
- Water and Waste Water Engineering
- Geotechnical Analysis and Design
- Environmental Engineering and Management
- Integrated Design Project
- Final Year Project

3. Professional Accreditation

The Major is accredited by the Civil Engineering Division of the Hong Kong Institution of Engineers.

4. Career Prospects

Consultant firms, government departments, property developers, and contractors offer excellent career opportunities.

5. Bonus Features

Enrichment features for the Major include study tours, overseas exchange, industrial attachment scheme as well as local and overseas internships.
Computer Engineering

Award title: Bachelor of Engineering (Hons) in Computer Engineering
電子計算機工程學榮譽工學士

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<tr>
<th>Indicative intake no.:</th>
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<tr>
<td>Major leader:</td>
<td>Dr Andrew LEUNG Chi-sing</td>
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<tr>
<td></td>
<td>Email: <a href="mailto:bengce@ee.cityu.edu.hk">bengce@ee.cityu.edu.hk</a></td>
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<tr>
<td></td>
<td>Tel: 3442 7378</td>
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<tr>
<td>General enquiry:</td>
<td>Department of Electronic Engineering</td>
</tr>
<tr>
<td></td>
<td>Miss Angela FOK</td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:bengce@ee.cityu.edu.hk">bengce@ee.cityu.edu.hk</a></td>
</tr>
<tr>
<td></td>
<td>Tel: 3442 7792</td>
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</table>

1. Aims of the Major

The aim of the Major is to provide students with a strong foundation in the core computer technologies. Students will be equipped with the theoretical and practical aspects of both hardware and software. In addition, the Major provides opportunities for students to develop independent learning, organizational skills and communication skills. On completion of the Major, graduates will be able to analyze, design and implement digital and computer systems. They will also be sufficiently prepared to pursue postgraduate studies and will be able to recognize the need for, and to engage in life-long learning.

2. What You Will Be Studying


In the final year, students are allowed to specialize in areas of interest for career preparation. Students have considerable flexibility to design their own studies by selecting elective courses in, for instance, mobile computing, digital image and audio technology, computer graphics and games, security technology, high-speed computer networks and Internet technology, etc.

3. Professional Accreditation

The Major has been accredited by the Hong Kong Institution of Engineers. Based on the Washington Accord, graduates will receive reciprocal recognition from equivalent bodies in Australia, Canada, Chinese Taipei, Ireland, Japan, Korea, Malaysia, New Zealand, Singapore, South Africa, the United Kingdom and the United States.
4. **Career Prospects**

With the rapid development in computer technology and multimedia applications, graduates will find ample opportunities in both hardware and software development positions for IT products and services. Potential employers include computer product development companies, software and system solutions companies, banks, finance and insurance companies and the government departments.

5. **Bonus Features**

**Co-curricular Activities and Learning Support**

**Industrial Placement Scheme (IPS)**
The Department runs an Industrial Placement Scheme, which was launched in 2010/11. In collaboration with industry, the Scheme aims to provide students with real work experience during their university years to better prepare them for employment after graduation. The Scheme starts at the beginning of year 3 in the 4-year curriculum, right through to graduation. There are three interrelated stages under the Scheme:

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<td>1.</td>
<td>Participating students work on group industrial projects in year three;</td>
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<td>2.</td>
<td>Well-prepared students undertake summer placement in the following summer; and</td>
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<tr>
<td>3.</td>
<td>Well-prepared students work on an industrial Final Year Project.</td>
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The Department places great emphasis on students' experiential learning. This adds value to the Major and enhances students’ employability upon graduation. Around 150 places will be secured each year for this Scheme.

Other internship schemes offered by the College’s Cooperative Education Centre which have been in place for many years include the *Industrial Attachment Scheme (IAS)*, *Overseas Internship Scheme (OIS)*, as well as the 12-month *Co-operative Education Scheme*.

**International Exchange**

Uplifting students' global outreach and international competitiveness through raising the proportion of students joining student exchange programmes is one of the Department's goals. In the past few years, a yearly average of around 20 students successfully grasped the chance to participate in exchanges with the top universities in the US, Singapore, Finland, Germany, Canada, Korea and mainland China. Correspondingly, with the urge of internationalization, The Department of Electronic Engineering has been hosting around 20 inbound exchange students yearly from Turkey, Korea, Germany, the US, and mainland China. Their affiliation contributes to a multicultural environment that widens our students' horizons.

**Course Tutoring Scheme**

Student learning is always the Department's top priority. The momentum is sustained by the well-received initiative, the Course Tutoring Scheme, introduced in 2010/11. The Scheme is designed to nurture good learning skills in students, particularly during their first year. Outstanding senior students are assigned as Student Tutors who participate in tutorial classes and guide students in learning the course content during and outside tutorial hours. The Scheme not only enhances students' understanding of the course content, but also creates a positive learning atmosphere among peers.
1. Aims of the Major

The Major aims to provide the best possible undergraduate education with a well-balanced emphasis on computer science theories, practical hands-on development skills as well as software engineering management know-hows needed to manage or work as a member of a software development team.

Through in-depth lectures and rigorous tutorials, laboratory work, projects and case studies, students will acquire a broad and thorough understanding of the theories and practical skills behind software design and development, software engineering, database systems, computer networks and information security. In addition, our study streams allow students to further specialize in different areas of expertise. The Computer Science Major includes a year-long day-release industrial placement component that allows students to gain valuable real world work experience. Graduates can easily leverage this strong foundation to specialize in various technical and managerial positions.

2. What You Will Be Studying

The main subject areas are:
- **Computer Systems**: covers basic hardware principles and computer organization, operating systems, data communications and networks.
- **Algorithm Design and Analysis and Mathematics**: develops students’ problem solving and analytical skills through study of discrete mathematics, object-oriented programming, and algorithm design techniques.
- **Software Engineering**: covers the entire software development life cycle, with emphasis on software design and synthesis, database design and management, and understanding of social, ethical and professional issues.
- **Seminar Series**: keeps students abreast of the latest developments in technology and market trends, and introduces students to a research culture. Outside scholars, IT professionals, and hardware/software vendors are invited as guest speakers or lecturers.
- **Electives**: cover a wide spectrum including information security, e-commerce, pervasive computing, Internet computing, computer graphics, multimedia technologies, data mining and compilers.
Study streams are provided to allow in-depth study in a selected area. This will enhance students’ competitiveness in developing careers in business sectors or academia. The four study steams are:

- **Systems and Networks Stream**: focuses on system architectures and distributed computing.
- **Software Engineering and Project Management Stream**: focuses on software design and quality, and project management.
- **Multimedia Computing Stream**: focuses on technologies in computer graphics, human-computer interface and multimedia systems.
- **Information Security Stream**: focuses on Internet security, security management and current issues.

3. **Professional Accreditation**

The Major is the first computer science programme in Hong Kong accredited by the Hong Kong Institution of Engineers. Based on the Washington Accord, graduates will receive reciprocal recognition from the equivalent bodies in Australia, Canada, Israel, New Zealand, South Africa, the UK and the US.

4. **Career Prospects**

Graduates will have excellent career prospects in the field of information technology. Upon graduation, they will be equipped for jobs involving state-of-the-art technology and building large software systems. They can look forward to professional advancement in technical expertise or in corporate technology management. They will also be well prepared to pursue a research and development career.

5. **Bonus Features**

After completing two years of full-time study specializing in the Major, students will take the year-long course of IT Professional Placement (ITPP) in the final year of study. ITPP enables students to integrate and apply what they have learned in a real-world like environment. Training provided includes working in project development teams and communications with various kinds of personnel in a business organization setting. Alternatively, subject to job availability and longer period of study, students may choose to work in sponsor organisations of ITPP including international computer vendors such as IBM, banks such as HSBC and JP Morgan Chase, the Hong Kong SAR Government and related organisations such as the Office of the Government Chief Information Officer, the Hospital Authority, the Hong Kong Monetary Authority and the Housing Authority, and other enterprises, such as the Hongkong Electric Co, the MTR Corporation and Thomson Reuters HK.

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.
Construction Engineering and Management

Award title: Bachelor of Engineering (Hons) in Construction Engineering and Management

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<tbody>
<tr>
<td>Major leader</td>
<td>Dr K C LAM</td>
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<td></td>
<td>Email: <a href="mailto:bckclam@cityu.edu.hk">bckclam@cityu.edu.hk</a></td>
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<td>Tel: 3442 7238</td>
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<tr>
<td>General enquiry</td>
<td>Department of Civil and Architectural Engineering</td>
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<tr>
<td></td>
<td>Email: <a href="mailto:cadept@cityu.edu.hk">cadept@cityu.edu.hk</a></td>
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<td>Tel: 3442 7609</td>
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1. **Aims of the Major**

   The Major allows students to:

   - have a sound grasp of the physical principles and processes required to construct buildings of all types, and of the organizational and operational practices and the financial management methods of the construction industry;

   - be aware of the impact of construction on the environment, and be prepared to adapt to changing practices and technologies;

   - understand the roles and functions of the professional builders and building engineers, and their relationship with other professions involved in the multi-disciplinary building industry in satisfying the needs of the construction clients; and

   - be able to demonstrate the capacity for independent thought and the synthesis of knowledge in specific aspects of the construction production process; and

   - make an original discovery so that they learn what it means to create new knowledge, communicate it, curate it, and cultivate it to benefit the society.

2. **What You Will Be Studying**

   The curriculum structure can be broadly classified into the following subject areas:

   - Communication Studies
   - Complementary Studies
   - Management
   - Technology and Engineering
3. **Professional Accreditation**

Graduates will gain full exemption from the Chartered Institute of Building, Hong Kong Institution of Engineers (Building Discipline) and the Hong Kong Institute of Construction Managers.

4. **Career Prospects**

The current booming market conditions, fuelled by the ten major infrastructure projects initiated by the HKSAR government and the resumption of construction of mega casino projects in Macau, are expected to continue in the coming decade, which provides thriving employment opportunities for graduates.

5. **Bonus Features**

The Mandatory Building Inspection Scheme to be implemented in the second half of Year 2012 will further open up employment opportunities in repair, maintenance, addition and alteration works.
Electronic and Communication Engineering

Award title: Bachelor of Engineering (Hons) in Electronic and Communication Engineering

<table>
<thead>
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</tr>
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</table>
| Major leader:          | Dr Andy CHAN Hau-ping  
Email: ecepl@ee.cityu.edu.hk  
Tel: 3442 8444 |
| General enquiry:       | Department of Electronic Engineering  
Ms Helena LEE  
Email: ecepl@ee.cityu.edu.hk  
Tel: 3442 7773 |

1. Aims of the Major

The aim of the Major is to provide students with a solid education in electronics and communications. Students will be exposed to the latest developments in communications (data, wireless and optical), signal processing, circuits & devices, and systems & control.

Our education will transform students into well-trained professional engineers with the skills and vision to enable them to progress further in their career path in this rapidly changing knowledge-based economy. The Major will also equip students to pursue postgraduate studies.

2. What You Will Be Studying

The first year of this major includes basic courses in electronics and communications, covering topics in analogue, digital and programming. These fundamental courses are to prepare students for more advanced courses in the latter years. Students have plenty of opportunities to gain hands-on experience through laboratory work. After completion of the basic courses, more advanced courses will follow to give students the necessary background to study specialized courses in the final stage of the Major.

Core subjects include the Principles of Communications, Logic Circuit Design, Electronic Circuits, Linear Systems and Signal Analysis, Microcomputer Systems, and Object-Oriented Programming & Design. The majority of core courses are supported by relevant laboratory work. Moreover, students (as team) will also participate in electronic product design course in the second year after entering this major so that they can learn how to collaborate with different teammates and apply their basic knowledge in a more holistic way through solving real applications.

Technical electives in the final stage of the Major cover specialized subject areas, with choices ranging from Wireless and Optical Communications, Industrial Electronics, and Computer Networks to Internet Technologies. Students will also be required to work independently on their final year project, in which they will be required to solve problems at a high technological level.

3. Professional Accreditation

The Major has been accredited by the Hong Kong Institution of Engineers. Based on the Washington Accord, graduates will receive reciprocal recognition from equivalent bodies in Australia, Canada, Chinese Taipei, Ireland, Japan, Korea, Malaysia, New Zealand, Singapore, South Africa, the United Kingdom and the United States.
4. Career Prospects

To maintain Hong Kong’s competitiveness, the government has taken steps to boost technology-based, high value-added services and industries. Electronics and communications are among the areas identified for focused support. Even in the banking, finance, business sectors, personnel with a solid background in technology are in great demand in this increasingly complex technological age.

Potential employers include computer/electronic/consumer products development and trading companies, telecommunication service providers, banks, insurers, logistic companies, Science Park, Cyberport, the MTR Corporation, and the Hong Kong SAR Government.

5. Bonus Features

Co-curricular Activities and Learning Support

**Industrial Placement Scheme (IPS)**
The Department of Electronic Engineering runs an Industrial Placement Scheme, which was launched in 2010/11. In collaboration with industry, the Scheme aims to provide students with real work experience during their university years to better prepare them for employment after graduation. The Scheme starts at the beginning of year 3 in the 4-year curriculum, right through to graduation. There are three interrelated stages under the Scheme:

1. Participating students work on group industrial projects in year three;
2. Well-prepared students undertake summer placement in the following summer; and
3. Well-prepared students work on an industrial Final Year Project.

The Department places great emphasis on students' experiential learning. This adds value to the Major and enhances students’ employability upon graduation. Around 150 places are secured each year for this Scheme.

Other internship schemes offered by the College’s Cooperative Education Centre which have been in place for many years include the Industrial Attachment Scheme, Overseas Internship Scheme, as well as the 12-month Co-operative Education Scheme.

**International Exchange**
Uplifting students' global outreach and international competitiveness through raising the proportion of students joining student exchange programmes is one of the Department's goals. In the past few years, a yearly average of around 20 students successfully grasped the chance to participate in exchanges with the top universities in the US, Singapore, Finland, Germany, Canada, Korea and mainland China. Correspondingly, with the urge of internationalization, the Department has been hosting around 20 inbound exchange students yearly from Turkey, Korea, Germany, the US, and mainland China. Their affiliation contributes to a multicultural environment that widens students' horizons.

**Course Tutoring Scheme**
Student learning is always the Department's top priority. The momentum is sustained by the well-received initiative - the Course Tutoring Scheme - introduced in 2010/11. The Scheme is designed to nurture good learning skills in our students, particularly during their first year. Outstanding senior students are assigned as Student Tutors who participate in tutorial classes and guide students in learning the course content during and outside tutorial hours. The Scheme not only enhances students' understanding of the course content, but also creates a positive learning atmosphere among peers.
e-Logistics and Technology Management

Award title: Bachelor of Engineering (Hons) in e-Logistics and Technology Management
電子物流及科技管理學榮譽工學士

This major is jointly offered by:
Department of Systems Engineering and Engineering Management
Department of Computer Science

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<tr>
<th>Indicative intake no.:</th>
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</table>
| Major leader:         | Dr Richard FUNG  
Email: meykfung@cityu.edu.hk  
Tel: 3442 8420 |
| General enquiry:      | Department of Systems Engineering and Engineering Management  
Email: seemgo@cityu.edu.hk  
Tel: 3442 8420 |

1. Aims of the Major

The Major aims to equip students with analytical, technical, managerial and behavioural skills and knowledge in aspects of e-logistics technology and technology management, to prepare them to play key professional and managerial roles in the global logistics industry. Students will acquire a broad understanding of the concepts, techniques and tools that will enable them to identify and tackle diverse problems in the logistics and related sectors. Students will gain a sound foundation in the relevant disciplines through practical hands-on projects and extensive exposure to real-life scenarios through industrial placements and overseas exchange arrangements with a view to attaining the dynamic levels and standards required by the global market.

2. What You Will Be Studying

There are five main programme building blocks:

- Basic technologies
- e-Logistics
- Integrative project
- Language and Gateway Education
- Logistics and technology management

Innovative teaching approaches will be adopted in the delivery of the curriculum in order to integrate theories with industrial practices. Problem-solving and student-centred activities, experience-based learning, integrative management workshops, industrial attachment, co-operative education, and industry-based projects are typical means to help achieve the targets.

3. Professional Accreditation

This major has been fully accredited by the Hong Kong Institution of Engineers, a signatory member of the Washington Accord, under which all members agree to recognize each other’s accredited engineering degree programmes.
4. **Career Prospects**

Graduates will find career opportunities in a broad range of logistics related industries, such as international freight forwarding, inventory management and warehousing, transportation, supply chain planning and control, industrial and manufacturing services. Typical starting positions include logistics analyst/officer, logistics engineer, distribution systems analyst/engineer, production and materials controller and supply chain planner.

5. **Bonus Features**

**Industrial Training and International Exchange**

The College of Science and Engineering, the Department of Systems Engineering and Engineering Management, and the Department of Computer Science offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

- gain solid experience in a real-life working environment;
- develop problem solving ability and interpersonal skills;
- learn the right attitudes towards work and professionalism; and
- broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre ([www.cityu.edu.hk/cse/cec](http://www.cityu.edu.hk/cse/cec)).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
1. **Aims of the Major**

The Major is designed to meet the needs of present day engineering students coming from diverse science background. It aims to equip them with basic technical and engineering knowledge; analytical, managerial, and behavioural skills; and prepare them for life-long growth within the field of industrial engineering and engineering management. The Major prepares graduates for a variety of careers in the continually evolving manufacturing, engineering and services industries of today.

2. **What You Will Be Studying**

There are five main subject areas:

- Engineering Management Block
- Foundation Block
- Industrial Engineering Block
- Integrative Block
- Technology Block

3. **Professional Accreditation**

The Major has been accredited by the Hong Kong Institution of Engineers (HKIE). Graduates of this major meet the academic requirements for Corporate Membership of HKIE.

4. **Career Prospects**

Graduates will find career opportunities in manufacturing, engineering services, consulting, construction, trading, government and financial institutions, where work needs to be efficiently organized and managed, particularly when the workforce needs to closely deal with “hard” and “soft” technologies. Examples include:

- Operations Management: developing facilities layout, operations planning and scheduling, manpower requirements setting in manufacturing/service companies;
- Logistics and Supply Chain Management: developing technologies and systems that support physical process and e-commerce, and optimize material sourcing, distribution network and inventories;

5. Bonus Features

Industrial Training and International Exchange

The College of Science and Engineering and the Department offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

• gain solid experience in a real-life working environment;
• develop problem solving ability and interpersonal skills;
• learn the right attitudes towards work and professionalism; and
• broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre (www.cityu.edu.hk/cse/cec).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
1. Aims of the Major

The Major is designed to provide a solid foundation necessary for students to embark on a successful career in information system, networking, system administration, software development and multimedia computing. Three popular and professional technical trainings are integrated into the curriculum structure. They are:

- Cisco CCNA network associate certification
- Fundamental Linux Training
- Google Android and Apple iPhone/iPad Mobile App Design

The strong knowledge base prepares graduates for further studies and for employment in a wide range of economic sectors mainly in technology, but also in business, banking, finance, and trading in Hong Kong and the Asia-Pacific region.

2. What You Will Be Studying

The Major focuses on four areas: Data Communication Networks, Computer System Administration, Software Development, and Multimedia Computing.


In the final year, students are allowed to specialize in areas of interest to prepare them for their future career. Students have considerable flexibility to design their own studies by selecting elective courses on, for instance, advanced networking technologies, Internet computing, multimedia technology and network security.

3. Professional Accreditation

The Major has been accredited by the Hong Kong Institution of Engineers. Based on the Washington Accord, graduates will receive reciprocal recognition from equivalent bodies in Australia, Canada, Chinese Taipei, Ireland, Japan, Korea, Malaysia, New Zealand, Singapore, South Africa, the United Kingdom and the United States.
4. **Career Prospects**

The Hong Kong SAR Government has identified Information Technology as one of the areas for focused support, with manpower projections showing this technology sector to have the fastest growth. Even in the banking, finance, business services, trading, legal and public administration sectors, personnel with a solid background in technology are in great demand in this increasingly complex technological age.

5. **Bonus Features**

**Co-curricular Activities and Learning Support**

**Industrial Placement Scheme (IPS)**

The Department runs an Industrial Placement Scheme, which was launched in 2010/11. In collaboration with industry, the Scheme aims to provide students with real work experience during their university years to better prepare them for employment after graduation. The Scheme starts at the beginning of year 3 in the 4-year curriculum, right through to graduation. There are three interrelated stages under the Scheme:

| 1. Participating students work on group industrial projects in year three; |
| 2. Well-prepared students undertake summer placement in the following summer; and |
| 3. Well-prepared students work on an industrial Final Year Project. |

The Department places great emphasis on students' experiential learning. This adds value to the Major and enhances students' employability upon graduation. Around 150 places will be secured each year for this Scheme.

Other internship schemes offered by the College’s Cooperative Education Centre which have been in place for many years include the *Industrial Attachment Scheme*, *Overseas Internship Scheme*, as well as the 12-month *Co-operative Education Scheme*.

**International Exchange**

Uplifting students' global outreach and international competitiveness through raising the proportion of students joining student exchange programmes is one of the Department's goals. In the past few years, a yearly average of around 20 students successfully grasped the chance to participate in exchanges with top universities in the US, Singapore, Finland, Germany, Canada, Korea and mainland China. Correspondingly, with the urge of internationalization, the Department of Electronic Engineering has been hosting around 20 inbound exchange students yearly from Turkey, Korea, Germany, the US, and mainland China. Their affiliation contributes to a multicultural environment that widens our students' horizons.

**Course Tutoring Scheme**

Student learning is always the Department’s top priority. The momentum is sustained by the well-received initiative - Course Tutoring Scheme - introduced in 2010/11. The Scheme is designed to nurture good learning skills in students, particularly during their first year study. Outstanding senior students are assigned as student tutors who participate in tutorial classes and guide students in learning the course content during and outside tutorial hours. The Scheme not only enhances students’ understanding of the course contents, but also creates a positive learning atmosphere among peers.
Manufacturing Systems Engineering

Award title: Bachelor of Engineering (Hons) in Manufacturing Systems Engineering

製造系統工程學榮譽工學士

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<td>Dr MA Wei Yin</td>
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<td>Tel: 3442 9548</td>
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<tr>
<td>General enquiry:</td>
<td>Department of Mechanical and Biomedical Engineering</td>
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<tr>
<td></td>
<td>Email: <a href="mailto:mbego@cityu.edu.hk">mbego@cityu.edu.hk</a></td>
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1. Aims of the Major

The Major focuses on the learning of knowledge-based manufacturing technologies and management at the systems level, and the intensive application of computer, information and internet technologies (Informatics) in globalized manufacturing and engineering enterprises.

2. What You Will Be Studying

The curriculum is composed of a set of core courses and a wide range of electives. The main subjects areas are:

- Computer and Engineering Information
- Engineering and Science
- Manufacturing Processes and Technology
- Systems and Management

3. Professional Accreditation

This major has been accredited by the Hong Kong Institution of Engineers, a signatory member of the Washington Accord, under which all members agree to recognize each other’s accredited engineering degree programmes.

4. Career Prospects

Manufacturing systems engineers are required to fulfil the needs of knowledge-intensive and globalized manufacturing and engineering enterprises. Upon graduation, students will find a wide range of career opportunities in the rapidly changing engineering and servicing industries, in areas such as logistics and supply chain systems, product/production design and management, manufacturing management systems, enterprise resource planning, quality management and systems, marketing, and computer-integrated manufacturing.
5. Bonus Features

The College of Science and Engineering and the Department of Mechanical and Biomedical Engineering offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

- gain solid experience in a real-life working environment;
- develop problem solving ability and interpersonal skills;
- learn the right attitudes towards work and professionalism; and
- broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre (www.cityu.edu.hk/cse/cec).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
Materials Engineering

Award title: Bachelor of Engineering (Hons) in Materials Engineering

Indicative intake no.: 39

Major leader: Dr C Y CHUNG
Email: appchung@cityu.edu.hk
Tel: 3442 7835

General enquiry: Department of Physics and Materials Science
Email: apoffice@cityu.edu.hk
Tel: 3442 7831

1. Aims of the Major

The role of materials in our society is much more important than most of us realize. Our lives would be endangered by storms in the absence of concrete and steel. Our visual defects cannot be easily corrected without glass. The launching of satellites and space shuttles would not be possible without heat-resistant materials and semiconductors.

Our comfortable lives are intimately associated with the discovery, manipulation and selection of natural and synthetic materials. Materials Engineering deals with the advancement in the understanding and manipulation of materials, which is always the forerunner to the stepwise progression of technology.

2. What You Will Be Studying

A set of core courses in the following areas are required for the Materials Engineering Major:


Elective course in the following areas are available for students’ selection:


3. Professional Accreditation

The BEng (Hons) degree in Materials Engineering has been accredited by the Hong Kong Institution of Engineers as an award satisfying the academic requirements for its Corporate Membership.
4. **Career Prospects**

In a study entitled “Technology Road Maps for Hong Kong” conducted for the Industry Development Board of the Hong Kong SAR Government, materials technology has been identified as one of the four major areas which offer good opportunities for future development. In 2004, the Innovation and Technology Commission of the Hong Kong SAR Government proposed Nanotechnology and Advanced Materials as one of the 13 technology focus areas in Hong Kong. Graduates with a materials-related degree are highly qualified to pursue a wide range of careers in industrial and business sectors.

Examples are agencies that conduct materials characterization and testing, construction industries, education, manufacturers of electronic components and semiconductor manufacturing, metals related industries, plastics related industries, product design and development, quality control, research degree opportunities, and technical marketing.

5. **Bonus Features**

- Industrial Attachment Scheme
- Co-operative Education Scheme
- Internship Programme for Exchange Students
Mechatronic Engineering

Award title: Bachelor of Engineering (Hons) in Mechatronic Engineering

機電一體化工程學榮譽工學士

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<td>Dr Alexander DJORDJEVICH</td>
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1. Aims of the Major

Upon completion of the Major, students will be able to integrate the diverse disciplines of mechanical, electrical and computer engineering. Students will also be able to design and develop high value-added mechatronic products (including laser printers, home appliances, toys, automation systems and machines) and implement the engineering aspects related to the utilization, operation and maintenance of manufacturing systems and equipment.

2. What You Will Be Studying

Entry-level courses emphasize fundamental principles and concepts, and cover a broad spectrum of basic and analytical design skills. The course topics include engineering materials and manufacturing processes, engineering analysis and design, mathematics, electronics and mechanical engineering, computer programming and computer-aided engineering drawing.

Intermediate-level courses are more advanced and provide the essential background for specialization. The courses include mechanical design, electronics for industrial applications, microprocessor programming and applications, and control principles.

Advanced-level courses include motion control design, group design-project and technical elective courses belonging to the subject areas of (i) mechanics; (ii) electronics, controls and computers; and (iii) systems and management.

3. Professional Accreditation

This major has been accredited by the Hong Kong Institution of Engineers, a signatory member of the Washington Accord, under which all signatory members agree to recognize each other's accredited engineering degree programmes.

4. Career Prospects

Graduates will find jobs in a wide range of fields involving the management of product design and development and the provision and maintenance of high-tech products and services in mechanical, electronic and computer related fields. They can work as plant engineer/manager, product designer/manager, mechatronic engineer, service engineer/manager, development engineer, sales engineer or, with further training, they can take up positions such as quality engineer, sales engineer or testing engineer.
5. **Bonus Features**

The College of Science and Engineering and the Department of the Mechanical and Biomedical Engineering offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

- gain solid experience in a real-life working environment;
- develop problem solving ability and interpersonal skills;
- learn the right attitudes towards work and professionalism; and
- broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre ([www.cityu.edu.hk/cse/cec](http://www.cityu.edu.hk/cse/cec)).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
Nuclear and Risk Engineering

Award title: Bachelor of Engineering (Hons) in Nuclear and Risk Engineering

核子及風險工程榮譽工學士

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| Major leader:          | Prof. C C CHIENG  
                          | Email: ccchieng@cityu.edu.hk  
                          | Tel: 3442 9525 |
| General enquiry:       | Department of Mechanical and Biomedical Engineering  
                          | Email: mbego@cityu.edu.hk  
                          | Tel: 3442 8420 |
| Remarks:               | New major introduced in 2012/13 |

1. Aims of the Major

The Major aims to equip students with multi-disciplinary knowledge in nuclear and risk engineering. Apart from acquiring discipline-related technical knowledge, students will have the opportunity to develop their problem solving skill so that they can analyze and solve a broad spectrum of engineering problems. Students will gain a sound foundation in the relevant disciplines through practical hands-on projects and extensive exposure to real-life scenarios through industrial placements and overseas exchange arrangements with a view to attaining the dynamic levels and standards required by highly competitive markets such as Hong Kong and mainland China. After completing the Major, students would be able to contribute their specialist skills, competencies and multi-disciplinary knowledge to a broad spectrum of related industrial sectors such as nuclear engineering, power generation, maintenance engineering, radiation protection, radiation dosimetry, medical equipment industry, risk engineering, safety engineering, insurance industry, or disaster management.

2. What You Will Be Studying

There are eight main building blocks:

- General science and engineering
- Nuclear engineering
- Nuclear medicine and medical radiation
- Maintenance engineering
- Risk engineering
- Crisis management
- Integrative project
- Language and gateway education

Innovative teaching approaches will be adopted in the delivery of the curriculum in order to integrate theories with industrial practices. Problem-solving activities, experience-based learning, integrative workshops, industrial attachment, co-operative education, and industry-based projects are typical means to help achieve the targets.
3. **Professional Accreditation**

This major will seek accreditation from the Hong Kong Institution of Engineers, a signatory member of the Washington Accord, under which all members agree to recognize each other’s accredited engineering degree programmes.

4. **Career Prospects**

As this major is multi-disciplinary in nature, job prospect is promising. After graduation, students can choose to work in many different professions or industrial sectors, such as power generation industry, maintenance engineering for large corporations, medical radiation related fields in hospitals and diagnostic centres, radiation protection and environmental protection in government departments and private consultancy firms, product research and development in nuclear radiation equipment companies, risk assessment in the financial sector, and also disaster management for Government, public utilities companies and big corporations.

5. **Bonus Features**

The College of Science and Engineering and the Department of Mechanical and Biomedical Engineering offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

- gain solid experience in a real-life working environment;
- develop problem solving ability and interpersonal skills;
- learn the right attitudes towards work and professionalism; and
- broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre (www.cityu.edu.hk/cse/cec).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
Total Quality Engineering

Award title: Bachelor of Engineering (Hons) in Total Quality Engineering
全質量安全監控工程學榮譽工學士

This major is co-hosted by:
Department of Systems Engineering and Engineering Management
Department of Mechanical and Biomedical Engineering

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<td>Major leader:</td>
<td>Dr K S CHIN</td>
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<td>Email: <a href="mailto:mekschin@cityu.edu.hk">mekschin@cityu.edu.hk</a></td>
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<tr>
<td>General enquiry:</td>
<td>Department of Systems Engineering and Engineering Management</td>
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<td>Email: <a href="mailto:seemgo@cityu.edu.hk">seemgo@cityu.edu.hk</a></td>
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<td>Tel: 3442 8420</td>
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<td>Department of Mechanical and Biomedical Engineering</td>
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<td>Email: <a href="mailto:mbego@cityu.edu.hk">mbego@cityu.edu.hk</a></td>
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<td>Tel: 3442 8420</td>
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1. Aims of the Major

The Major aims to produce graduates who can play key professional roles in the manufacturing industry amidst increasing global challenges. Students will acquire a broad understanding of the concepts, techniques and tools in the subject domain to enable them to identify and tackle diverse quality engineering problems in manufacturing and related sectors. In addition to engineering know-how, students will be armed with the skills of quality control, quality assurance and reliability engineering, with additional training in trace element analysis, international standards and conformity testing, and compliance knowledge and skills. Furthermore, they will have extensive exposure to real-life industry scenarios through practical hands-on projects, industrial internship, and industry-based final-year projects.

2. What You Will Be Studying

The basic curriculum consists of three modules:

- Basic engineering
- Total quality engineering, and
- Integrative project

3. Professional Accreditation

This major has been granted provisional accreditation by the Hong Kong Institution of Engineers (HKIE). Graduates of this major meet the academic requirements for Corporate Membership of HKIE.
4. **Career Prospects**

Graduates will find career opportunities in a broad range of manufacturing and service industries. Typical starting positions include quality/quality assurance/quality control engineer/officer/controller, procurement/supplier quality engineer/officer, quality system /ISO9000 officer/controller, product testing/ integrity engineer, customer/service quality officer, quality and safety engineer/officer, project engineer, and quality analyst.

5. **Bonus Features**

**Industrial Training and International Exchange**

The College of Science and Engineering, the Department of Systems Engineering and Engineering Management and the Department of Mechanical and Biomedical Engineering offer work placement opportunities through different internship schemes which provide students with full-time job attachment to firms not only in Hong Kong, but also the Pearl River Delta region and overseas countries. Through such placement, students will:

- gain solid experience in a real-life working environment;
- develop problem solving ability and interpersonal skills;
- learn the right attitudes towards work and professionalism; and
- broaden their experience and enhance their employability.

For details, please visit the website of the College’s Co-operative Education Centre (www.cityu.edu.hk/cse/cec).

What’s more, in order for students to broaden their educational horizons, gain language experience and enhance awareness of different cultures, the Department, College and University offer over 110 credit-bearing exchange programmes with various partner universities around the world, including Australia, Canada, Europe, the US and others in the Asia-Pacific region.

For details, please visit the University’s and Department’s websites for outbound exchange programme.
1. **Aims of the Major**

The Major aims to provide students with a firm foundation in biological sciences and specialization in one of the following areas: biotechnology and molecular biology, environmental monitoring and pollution control or industrial and food microbiology. Students will develop the knowledge, understanding, skills and attitudes required to achieve personal development and find suitable employment in the industrial, commercial, government and educational sectors.

2. **What You Will Be Studying**

Biology is the study of life, and this Major offers courses in many areas of life sciences that are aimed at expanding our understanding of the natural world. The subject areas offered in the Major find applications in diverse fields such as molecular biology, physiology, ecology, biodiversity and biotechnology. The curriculum is rigorous and provides a background in problem-solving, critical thinking, research, organization, time management and communication skills. Students are encouraged to participate in various faculty-mentored research projects, and have the choice of a variety of interdisciplinary streams and industrial and co-op programmes, which provide a wide variety of options for professional and personal development.

3. **Professional Accreditation**

Graduates of this Major are eligible for associate membership of the Australian Society for Microbiology and graduate membership of the Institute of Biology, UK.
4. **Career Prospects**

Graduates enjoy a wide range of career opportunities in various government departments, consultancy companies, laboratories and the commercial, industrial or educational sectors, or may choose to pursue postgraduate studies.

5. **Bonus Features**

Courses are practical and based on examples from the local region. Many courses are augmented with laboratory sessions, field trips and field camps.
1. **Aims of the Major**

The Major aims to provide students with a firm foundation in applied chemistry. Students can develop the knowledge, understanding, skills and attitudes required to achieve personal development and find suitable employment in the industrial, commercial, government and educational sectors.

2. **What You Will Be Studying**

The Major offers fundamental courses in four main areas of chemistry: Analytical, Inorganic, Organic and Physical Chemistry.

In senior year, more intermediate and advanced level chemistry courses in the same four areas and other advanced chemistry disciplines such as Forensic Chemistry, Food Chemistry, Medicinal Chemistry, Industrial Chemistry, Green Chemistry and Supramolecular Chemistry will be offered. Various environmental sciences and biology elective courses will also be available for selection.

3. **Professional Accreditation**

Graduates of this major are eligible for:
- Full membership of the American Chemical Society
- Full membership of the Chemical Institute of Canada
- Associate membership of the Canadian Society for Chemistry
- Full membership of Hong Kong Chemical Society
- Graduate membership of the Royal Australian Chemical Institute
- Associate membership of the Royal Society of Chemistry
4. **Career Prospects**

Graduates enjoy a wide range of career opportunities in various government departments, consultancy companies, laboratories and the commercial, industrial or educational sectors. Alternatively, graduates may choose to pursue postgraduate studies.

5. **Bonus Features**

Courses are practical. Many courses are augmented with laboratory sessions.
Applied Physics

Award title: Bachelor of Science (Hons) in Applied Physics
應用物理學榮譽理學士

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<tr>
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<tr>
<td>Major leader:</td>
<td>Dr H F CHEUNG</td>
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<td>General enquiry:</td>
<td>Department of Physics and Materials Science</td>
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<td>Email: <a href="mailto:apoffice@cityu.edu.hk">apoffice@cityu.edu.hk</a></td>
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1. Aims of the Major

Applied physics adopts and utilizes physics principles for a multitude of scientific and technological applications. In fact, much of modern technology and its advances owe its existence to applied physics. Therefore, the scope of study overlaps with many other scientific and engineering disciplines (e.g., materials science, environmental science, biomedical science and engineering, electronics, mechanical and manufacturing engineering).

Graduates with a degree in applied physics possess a unique qualification: not only do they have a fundamental understanding of physics principles, but are also trained to apply these principles to various fields. Applied physics graduates have strong training in problem-solving research and development. Because of this background, graduates generally need less time to integrate themselves into future jobs, and adapt well to technological changes.

2. What You Will Be Studying

Elective courses of the Major are arranged into four streams: (1) Environmental Physics, (2) Photonics, (3) Materials Technology, and (4) Biomedical Physics and Engineering. Environmental Physics Stream provides students with knowledge in radiation physics, energy and environment, noise pollution, and earth systems. Photonics Stream provides students with the basic knowledge of optics, photonic materials, optical spectroscopy, lasers and opto-electronics. Materials Technology Stream provides students with knowledge in materials testing and characterization, microelectronic materials, thin film technology and nanocrystalline coatings. Biomedical Physics and Engineering Stream provides students with knowledge in medical physics, radiation biophysics and biomedical materials. Students are free to choose any combination of courses in the above four streams.

Students are trained to develop the ability to use the most effective instrumentation and evaluation techniques for scientific and industrial applications, as well as to examine critically the data collection methodology and the resulting data. Students will also receive relevant industrial training and workshop practice, particularly with regard to engineering design.
3. **Career Prospects**

Traditionally, in Hong Kong, most physics graduates have become teachers, or pursued further study or taken up careers in various government departments and agencies. Graduates in applied physics have the distinct advantage that they can also pursue careers in industrial and business sectors. Examples are:

**Industry/Business**
Electronic components manufacturing (e.g., printed circuit boards, liquid crystal displays), environmental consultancy, instrumentation (e.g., scientific instruments and applications), optics-related industries, semiconductor manufacturing (e.g., integrated-circuits process technology), biomedical equipment and products manufacturing

**Government departments and agencies**
Environmental Protection Department, Hospital Authority

4. **Bonus Features**

The Department of Physics and Materials Science provides students with multiple opportunities for professional training, including final-year projects that are carried out in conjunction with industries or government agencies, which facilitates job seeking upon graduation. In addition, the Department has established outbound academic exchange programme with the Umea University in Sweden.
Computing Mathematics

Award title: Bachelor of Science (Hons) in Computing Mathematics

1. Aims of the Major

The Major aims to produce graduates in computing mathematics with a strong background of knowledge, skills and tools for mathematical modelling, scientific computation and technical computer software. The Major trains students to be able to think quantitatively and analyse problems critically.

2. What You Will Be Studying

The Major includes communication skills, general studies and core subjects in algebra, computing and programming techniques, differential equations, discrete mathematics, mathematical methods and analysis, numerical methods, and probability and statistics.

Electives include topics in actuarial science, applied functional analysis, applied statistics, optimization, computational geometry, dynamical systems and chaos, finite element method, industrial mathematics, mathematical finance, and partial differential equation, etc.

3. Career Prospects

Graduates of the Major will find themselves in hot demand in fields such as quantitative business planning, mathematical modelling, scientific programming, engineering analysis, communications and e-commerce. There is also a great demand for mathematics teachers at secondary schools in Hong Kong. In recent years, about 20% of the graduates have found jobs in business intelligence units of major banks in Hong Kong.
4. **Bonus Features**

   The Major is recognised by the Institute of Mathematics and Its Applications, UK.
Surveys

Award title: Bachelor of Science (Hons) in Surveying
測量學榮譽理學士

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<td>Major leader:</td>
<td>Prof. CHEUNG Sai On</td>
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1. **Aims of the Major**

   The Major aims to provide students with:

   - an environment for them to develop their intellectual and analytical abilities; to become competent, skilled and reflective members of the surveying profession; to be equipped with the knowledge, skill and ability to solve problems in a professional context and beyond; to become committed lifelong learners; and to have the aspiration in becoming leaders of the building and construction industry;

   - a solid academic foundation and environment to realize their full potential through a balanced approach in encompassing personal, intellectual and professional development;

   - a basis for continuing professional development, specialization, higher academic pursuits and research; and

   - opportunities to develop attitude of discovery and enquiry, and to become culturally sensitive and effective communicators.

2. **What You Will Be Studying**


   **Communications**: Information Systems, Professional Practice and Language.


3. **Professional Accreditation**

The Major has been accredited by the Building Surveying and Quantity Surveying Divisions of Hong Kong Institute of Surveyors, and the Royal Institution of Chartered Surveyors in the form of a partnership.

4. **Career Prospects**

Government departments, property developers, consulting offices and contracting organizations offer excellent career opportunities to professional surveyors.

5. **Bonus Features**

Enrichment features of the Major include study tours, exchanges, industrial mentoring and attachment as well as local and overseas internship.
Environmental Science and Management

Award title: Bachelor of Science (Hons) in Environmental Science and Management

環境科學與管理榮譽理學士 (Available to students admitted via the School of Energy and Environment)

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<th>Indicative intake no.:</th>
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<tbody>
<tr>
<td>Major leader:</td>
<td>Dr Paul SHIN Kam-shing</td>
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<td>Tel: 3442 7720</td>
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<td>General enquiry:</td>
<td>Department of Biology and Chemistry</td>
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<td>Email: <a href="mailto:bhenquir@cityu.edu.hk">bhenquir@cityu.edu.hk</a></td>
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<td>Tel: 3442 7404</td>
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<td>Remarks:</td>
<td>This major is co-hosted by the School of Energy and Environment and the Department of Biology and Chemistry of the College of Science and Engineering. Students from the School of Energy and Environment may choose this major at the end of their first year of study.</td>
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1. **Aims of the Major**

   The Major aims to train environmental managers who possess a solid scientific background and a sound knowledge of social, economic and legal issues. The training develops students’ awareness of the social responsibility of environmental scientists with particular emphasis on the protection of the living environment.

2. **What You Will Be Studying**

   Environmental science and management is a modern, exciting, multidisciplinary field that includes subject areas as diverse as chemistry, biology, ecology, toxicology, earth sciences, law, sociology, economics and management.

   In the first year, this major focuses on learning the fundamentals that underpin environmental science – especially those related to biology and chemistry.

   In subsequent years, students will take required courses on how our planet’s biogeochemistry “fits together”, and environmental issues related to law and justice, ethics, economics as well as atmospheric science, pollution and toxicology, conservation and environmental impact assessment. Through electives, students can explore other domains in (1) water quality and waste management, including courses on environmental measurements, environmental pollution, and water and waste treatment, (2) ecosystems management, including courses on aquatic ecology, soil and terrestrial plant ecology, environmental measurements and sampling skills and risk assessment, and (3) atmospheric environment, including courses on physics of climate, atmospheric measurements, air pollution measurements and control, and environmental data analysis.

   To foster independent thinking and enhance discovery-enriched activities, there are also free elective courses that enable students to undertake an independent scientific project under the supervision of an academic staff member. During the process, apart from gaining a deeper understanding of the research topic, students will acquire essential problem solving, critical thinking, organization and time management skills, which will be essential in building their career.
3. **Professional Accreditation**

Graduates, with relevant employment, are eligible for graduate membership of the Chartered Institution of Water and Environmental Management in the UK.

4. **Career Prospects**

Graduates can expect to make a significant contribution to environmental conservation and protection in Hong Kong, in both government and private sectors. Graduates may seek employment in various government departments, conservation organizations, consultancy companies, laboratories and the commercial, industrial or educational sectors. Alternatively, graduates may choose to pursue postgraduate studies.

5. **Bonus Features**

The courses are practical and based on examples from our own region. Many courses are augmented with laboratory sessions, field trips and field camps. Subject to funding support, selected students are able to take part in overseas or mainland China projects to acquire hands-on experience in conservation of endangered species.