CIVIL ENGINEERING

SYLLABUS

This syllabus applies to students admitted in the academic year 2011-12 and thereafter.

Curriculum

The curriculum comprises 180 credits of courses as follows:

(a) General Engineering Courses

Students are required to successfully complete at least 24 credits of General Engineering courses.

(b) Core Engineering Courses

Students are required to successfully complete ALL core engineering courses (84 credits), comprising of 18 credits of introductory core courses and 66 credits of advanced core courses.

(c) Advanced Elective Courses in Civil Engineering

Students are required to take 36 credits of advanced elective courses in civil engineering offered by the Department of Civil Engineering.

(d) Elective Course(s)

Students are required to take 9 credits of advanced elective course(s) offered by either the Department of Civil Engineering or other department(s) within or outside of the Faculty of Engineering.

(e) University Requirements

(i) Students are required to successfully complete two English language courses to accumulate up to a maximum of 6 credits.

(ii) Students are required to successfully complete one Chinese language course (3 credits)\(^1\).

(iii) Students are required to successfully complete 12 credits of courses in the Common Core Curriculum, selecting no more than one course from each Area of Inquiry.

(f) Internship

Students are required to successfully complete an Internship (6 credits). The training normally takes place after the second year of study.

To complete the curriculum, a candidate is required to gain not fewer than 180 credits from the above listed courses.

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\(^1\) Putonghua-speaking students should take CUND0002 or CUND0003. Students who have not studied Chinese language during their secondary education / who have not attained the requisite level of competence in the Chinese language to take CENG1001 can apply (i) to take credit-bearing Cantonese or Putonghua language courses offered by the School of Chinese especially for international and exchange students; OR (ii) to be exempted from the Chinese language requirement and take an elective course in lieu.
Degree Classification

The best 180 credits including the courses below shall be taken into account:

(a) 12 credits from University Common Core Curriculum.

(b) At least 24 credits from General Engineering Courses, including

   (i) ENGG1002 Computer programming and applications; or ENGG1016 Computer programming and applications I; AND
   (ii) ENGG1003 Mathematics I or both ENGG1004 Mathematics IA and ENGG1005 Mathematics IB; AND
   (iii) ENGG1006 Engineering for sustainable development; AND
   (iv) ENGG1010 Foundations of engineering mechanics

(c) All core engineering courses, including both introductory and advanced courses;

(d) At least 45 credits advanced courses from

   (i) civil engineering elective courses; AND
   (ii) elective courses;

(e) Language Enhancement Courses, i.e. CAES1505 Professional and technical written communication for engineers\(^2\), CAES1515 Professional and technical oral communication for engineers and CENG1001 Practical Chinese language course for engineering students\(^1\).

(f) Internship (6 credits)

An example of the programme structure is as follows:

(a) First Year

**General Engineering Courses**

- Computer programming and applications or Computer programming and applications I
- Engineering for sustainable development
- Foundations of engineering mechanics
- Mathematics I or both Mathematics IA and Mathematics IB

**University Requirements**

- Practical Chinese language course for engineering students
- Professional and technical oral communication for engineers
- Professional and technical written communication for engineers
- Course in the Common Core Curriculum

**Introductory Core Engineering Courses**

- Environmental engineering and fluid mechanics
- Engineering mechanics and materials
- Surveying and drawing

Total credits 57

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\(^2\) Students pursuing the double-degrees in BEng/BBA should take CAES1907 in lieu of CAES1505
(b) Second Year

Course in the Common Core Curriculum 6

Advanced Core Engineering Courses
- Engineering design and communication 6
- Engineering geology and rock mechanics 6
- Engineering mathematics II 6
- Hydraulics and hydrology 6
- Principles of civil engineering management 6
- Soil mechanics 6
- Theory and design of structures I 6
- Theory and design of structures II 6
- Transportation engineering 6

Total credits 60

Summer Semester

Internship 6

Total credits 6

(c) Third Year

Advanced courses
- Civil engineering advanced elective courses 36
- Elective course(s) 9
- Project 12

Total credits 57

COURSE DESCRIPTIONS

Candidates will be required to do the coursework in the respective courses selected. Not all courses are offered every semester.

Level One

General Engineering Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG1002</td>
<td>Computer programming and applications</td>
<td>6</td>
</tr>
<tr>
<td>ENGG1003</td>
<td>Mathematics I</td>
<td>6</td>
</tr>
<tr>
<td>ENGG1004</td>
<td>Mathematics IA</td>
<td>3</td>
</tr>
<tr>
<td>ENGG1005</td>
<td>Mathematics IB</td>
<td>3</td>
</tr>
<tr>
<td>ENGG1006</td>
<td>Engineering for sustainable development</td>
<td>6</td>
</tr>
<tr>
<td>ENGG1010</td>
<td>Foundations of engineering mechanics</td>
<td>6</td>
</tr>
<tr>
<td>ENGG1016</td>
<td>Computer programming and applications I</td>
<td>6</td>
</tr>
</tbody>
</table>

Please refer to the General Engineering Courses in the syllabus for the degree of BEng for details.
University Requirements on Language Enhancement Courses

CAES1505. Professional and technical written communication for engineers (3 credits)

The focus of this course is the function and importance of professional and technical communication in English and specifically understanding and using written English. Topics include accessing, abstracting, analysing, organizing and summarizing information; making effective grammatical and lexical choices; technical report writing; small-scale project design and implementation.
Assessment: 100% Continuous assessment

CAES1515. Professional and technical oral communication for engineers (3 credits)

This course focuses on students developing technical and professional spoken English skills. Throughout the course, the students will give a series of presentations which will help them to improve skills such as accessing, abstracting, analyzing, organizing and summarizing information; asking questions and negotiating meanings; making effective grammatical and lexical choices and using visual aids to ensure meaning is clear. The presentations give the students an opportunity to develop the skills to talk about general issues in Engineering in the Hong Kong context, engineering theories and their practical applications and also requires them to present a detailed exploration of one aspect of engineering related to their chosen major.
Assessment: 100% Continuous assessment.

CENG1001. Practical Chinese language course for engineering students (3 credits)

Please refer to the University Language Enhancement Courses in the syllabus for the degree of BEng for details.

University Common Core Curriculum

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

- Scientific and Technology Literacy
- Humanities
- Global Issues
- China: Culture, State and Society

Introductory Core Engineering Courses

CIVL1012. Environmental engineering and fluid mechanics (6 credits)

Man and the environment; water quality, resources and treatment; wastewater characteristics and treatment; solid waste, air and noise pollution control; environmental impact assessment; flow measurements; dimensional analysis and scale models; flow of an ideal fluid; flow in pipes.
Assessment: 20% practical work, 80% examination
CIVL1013. Engineering mechanics and materials (6 credits)

Engineering Mechanics: Bending moment, shear and axial force diagrams; Beam theory for bending and shear; shear centre; deflections of beams; analysis of stress and strain; energy methods.

Materials: Major applications and required properties of construction materials; structural steel; concrete pulverized fuel ash; fibre-reinforced cementitious materials; brickwork and masonry; timber; bituminous materials. Crystalline structure; elastic and plastic deformations; phase diagrams; alloying; material forming and heat treatment; corrosion.
Assessment: 15% practical work, 15% Continuous assessment, 70% examination

CIVL1014. Surveying and drawing (6 credits)

Engineering drawing; fundamental geometrical projections; general civil engineering drawings; detailing for reinforced concrete and steel structures.

Basic principles of plane surveying; differential and trigonometrical levelling; distance and angle measurements; tachometry; horizontal control; traverse; triangulation and trilateration; theory of errors; network adjustment.
Assessment: 100% Continuous assessment

Advanced Core Engineering Courses

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

Statically determinate structures; beams and frames; trusses; elementary arch and cable analysis; masonry structures; influence lines; deflection of simple structures.

Structural forms and concepts; philosophy of design; loading; codes of practice; design of simple sections and members.
Assessment: 15% practical work, 15% Continuous assessment, 70% examination

CIVL1011. Transportation engineering (6 credits)

Transportation and its context; basic characteristics of different transportation modes; urban transportation planning and land use/transportation studies; highway alignment and geometric design; transportation surveys.
Assessment: 20% Continuous assessment, 80% examination

Level Two

Advanced Core Engineering Courses

CIVL2001. Engineering design and communication (6 credits)

Planning and design of civil engineering projects; open-ended schematic design of multi-disciplinary projects; project appraisal and feasibility study; environmental impact assessment; project implementation.

Communication and presentation of information related to project work.
Assessment: 100% Continuous assessment
CIVL2002.  Engineering geology and rock mechanics (6 credits)

Minerals and rocks; introduction to stratigraphy; structural geology; earthquakes; surface processes; groundwater; geological maps; geology of Hong Kong; stereonets; rock slopes; behaviour and properties of rocks as an engineering material; rock discontinuities; rock stresses; failure of rock and strength theory; tunnels and underground excavations in rocks; rock foundation; rock testing techniques; applications of rock mechanics in engineering practice; fieldwork and case studies.
Assessment: 20% practical work, 10% Continuous assessment, 70% examination

CIVL2003.  Engineering mathematics II (6 credits)

Complex variables; Fourier analysis & partial differential equations; introduction to probability & statistics.

Prerequisite: ENGG1003 Mathematics I or both ENGG1004 Mathematics IA and ENGG1005 Mathematics IB
Assessment: 20% Continuous assessment, 80% examination

CIVL2004.  Hydraulics and hydrology (6 credits)

Governing equations of motion; laminar and turbulent flow; boundary layer theory; flow in open channels; hydraulic machinery; basic concepts of the hydrological cycle; precipitation; evaporation and evapo-transpiration; infiltration; methods of estimating runoff; probability concepts in hydrology.

Pre-requisite: CIVL1012 Environmental engineering and fluid mechanics
Assessment: 15% practical work, 15% Continuous assessment; 70% examination

CIVL2006.  Soil mechanics (6 credits)

Basic characteristics of soils; soil classification; seepage; effective stress; soil compaction; soil testing techniques; consolidation theory and settlement analysis; shear strength and failure criteria; applications of soil mechanics in engineering practice: lateral pressures and retaining structures, bearing capacity of foundations, slopes and embankments.
Assessment: 20% practical work, 10% Continuous assessment, 70% examination

CIVL2007.  Theory and design of structures II (6 credits)

Method of consistent deformation, slope-deflection method, and moment distribution method for indeterminate structures.

RC short columns, bending moment and shear force envelopes, RC continuous one-way slabs, concept of T-beams, and reinforcement curtailment. Steel flexural members (lateral torsional buckling), tension members and compression members.

Prerequisite: CIVL1010 Theory and design of structures I
Assessment: 30% Continuous assessment, 70% examination
CIVL2008. **Principles of civil engineering management (6 credits)**

Engineers in society; organization of firm and site; engineering economics; site planning; estimating; human resources management; project management; basic legal systems and contracts; dispute resolution techniques; quality management; safety management; general planning and control systems.
Assessment: 30% Continuous assessment, 70% examination

* For the double-degree in BEng/BBA, students who have completed the business course of ‘Principles of management’ are exempted from taking this core course under the BEng curriculum.

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**Internship**

CIVL2009. **Internship (6 credits)**

To complete a period of training in industry not less than a total of four weeks during the summer semester, subject to satisfactory performance in training and the submission of a satisfactory training report.
Assessment: 100% Continuous assessment

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**Advanced Elective Course**

CIVL2010. **Experiential Learning (6 credits)**

To complete a period of training in industry, workshop training, study tour, or leadership programme, approved by the Head of Department, not less than a total of four weeks during the summer semester, subject to satisfactory performance in these activities and the submission of a satisfactory completion report.
Assessment: 100% continuous assessment

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**Level Three**

**Advanced Core Engineering Course**

CIVL3013. **Project (12 credits)**

A dissertation or report on a topic consisting of design, experimental or analytical investigation.
Assessment: 100% Continuous assessment

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**Advanced Elective Courses in Civil Engineering**

CIVL3001. **Advanced engineering mechanics (6 credits)**

Three-dimensional analysis of stress and strain; examples in two- and three-dimensional problems; equilibrium and principle of virtual work; linear system and matrix methods; finite element procedure and formulation; plane stress/strain triangular elements; triangular element for heat conduction and steady state field problems.
Assessment: 30% Continuous assessment, 70% examination
CIVL3003.  Construction project management (6 credits)

Construction planning and programming methods; critical paths and resource scheduling; work study and productivity; financial planning and control; cash flow management; civil engineering contracts and contract administration; managing design and other consultancy services; value management; ethics and professionalism.
Assessment: 30% Continuous assessment, 70% examination

CIVL3006.  Engineering hydraulics (6 credits)

Non-uniform open channel flow; gradually & rapidly varied flow, applications to hydraulic structures & storm water drainage design; hydraulics of alluvial channels; turbulent mixing and transport.
Prerequisite: CIVL2004 Hydraulics and hydrology
Assessment: 10% practical work, 20% Continuous assessment, 70% examination

CIVL3007.  Environmental impact assessment of civil engineering projects (6 credits)

Environmental protection legislation; environmental impact assessment process; environmental impact prediction and evaluation during construction and operation of projects; mitigation measures; modelling; environmental monitoring and auditing; environmental management issues; case studies.
Prerequisite: CIVL1012 Environmental engineering and fluid mechanics
Assessment: 30% Continuous assessment, 70% examination

CIVL3008.  Foundation engineering (6 credits)

Ground investigation; bearing capacity, shallow and deep foundations, foundation settlements; foundation failure and remediation; case studies.
Prerequisite: CIVL2006 Soil mechanics
Assessment: 30% Continuous assessment, 70% examination

CIVL3010.  Management and communication skills for engineers (3 credits)

Leadership; team building; problem solving and decision making; verbal communication; business development skills; interviews and business writing.
Assessment: 100% Continuous assessment

CIVL3011.  Municipal and industrial wastewater treatment (6 credits)

Municipal wastewater flows and characteristics; sewerage systems; municipal wastewater treatment; industrial wastewater characteristics; physical, chemical and biological treatment of industrial wastewater.
Prerequisite: CIVL1012 Environmental engineering and fluid mechanics
Assessment: 20% practical work, 80% examination
CIVL3012. Prestressed concrete structures (6 credits)

Fundamental principles of prestressing; materials and systems for prestressed concrete; loss of prestress; design of simple and composite beams; secondary moment; concordant cable; linear transformation; design and construction of concrete bridges.

Prerequisite: CIVL2007 Theory and design of structures II
Assessment: 30% Continuous assessment, 70% examination

CIVL3014. Slope engineering (6 credits)

Landslide hazards, slope stability analyses; landslide investigation; uncertainties in slope stability analysis; landslip preventive measures; case studies.

Prerequisite: CIVL2002 Engineering geology and rock mechanics and CIVL2006 Soil mechanics
Assessment: 20% Continuous assessment, 80% examination

CIVL3015. Solid and hazardous waste management (6 credits)

Sources, control, characteristics, collection, transport, recovery, treatment and disposal of solid and hazardous wastes.
Assessment: 30% Continuous assessment, 70% examination

CIVL3016. Steel structures (6 credits)

Plastic analysis, design of steel structures, design of composite structures.

Prerequisite: CIVL2007 Theory and design of structures II
Assessment: 20% Continuous assessment, 80% examination

CIVL3018. Theory and design of structures III (6 credits)

Matrix method; differential settlements; temperature; shrinkage and other effects; torsion structures; stability.

Design of reinforced concrete structures: building frames, shearwalls and water retaining structures.

Prerequisite: CIVL2007 Theory and design of structures II
Assessment: 30% Continuous assessment, 70% examination

CIVL3019. Traffic engineering (6 credits)

Highway traffic system; characteristics of traffic; theories of traffic flow; traffic surveys; traffic management; intersections and interchanges; design of signal systems.
Assessment: 30% Continuous assessment, 70% examination
CIVL3020.  Transportation infrastructure engineering (6 credits)

This course will serve as an introduction to the theory and practice of transportation infrastructure planning and design. Topics may vary from year to year but will usually include highway engineering, railway engineering and airport engineering.

Prerequisite: CIVL1011 Transportation engineering
Assessment: 30% Continuous assessment, 70% examination

CIVL3021.  Water resources engineering (6 credits)

Sources of water; collection and treatment; transmission and distribution; wastewater collection, treatment and disposal; water related disasters; hydropower; irrigation; case studies.

Prerequisite: CIVL1012 Environmental engineering and fluid mechanics
Assessment: 20% practical work, 80% examination

CIVL3022.  Wind engineering (6 credits)

Wind characteristics; topographical effects on wind patterns; wind flow around buildings and structures; wind loading.
Assessment: 20% Continuous assessment, 80% examination

CIVL3025.  Law for civil engineers (6 credits)

Introduction to legal system; local & PRC legislation and regulations; contractual rights; obligations and remedies; law of tort; company law; land law; litigation; dispute resolution approaches; evidence; insurance law.
Assessment: 30% Continuous assessment, 70% examination

CIVL3026.  Engineering practice in Mainland China (6 credits)

Engineering code of practice and work procedure; site investigation; foundation design and construction; loading and structural design practice; introduction to seismic design; design of bridges and highway structures; acceptance criteria; site supervision system.

Prerequisite: CENG1001 Practical Chinese language course for engineering students or CENG1004 Practical Chinese language course for civil engineering (law) students or CUND0002 Practical Chinese language and Hong Kong society and CIVL2007 Theory and design of structures II
Assessment: 30% Continuous assessment, 70% examination

CIVL3027.  Professional practice in the built environment (6 credits)

Statutory control of building safety, health and environment in Hong Kong; buildings ordinance and regulations; general and structural planning of buildings; professional communication skills, conduct, responsibility, liability, risk and indemnity.
Assessment: 30% Continuous assessment, 70% examination
CIVL3028. Structural dynamics and earthquake engineering (6 credits)

Earthquake hazard and ground shaking, site (soil) effects, seismic design spectra, earthquake loadings, dynamic earthquake response, design codes, performance-based design, vibration control. 
Assessment: 30% Continuous assessment, 70% examination

CIVL3029. Numerical analysis in geotechnical engineering (6 credits)

Introduction to finite difference and finite element methods; general numerical considerations for geotechnical problems; elementary constitutive models for soils; application to one-dimensional consolidation, seepage and excavation problems.
Prerequisite: CIVL2006 Soil mechanics
Assessment: 35% Continuous assessment, 65% examination

CIVL3030. Structural fire engineering (6 credits)

Fire behaviour, fire curve, fire development, fire safety, fire type, design principles for structures in fire, prescriptive and performance-based approaches, materials behaviour in fire condition, temperature prediction of fire compartment, temperature prediction of steel, concrete and composites members, design of steel and reinforced concrete structures in fire, practical design case study.
Prerequisite: CIVL2007 Theory and design of structures II
Assessment: 30% Continuous assessment, 70% examination

CIVL3031. Earth retaining system (6 credits)

Lateral earth pressure; retaining walls, braced-cut; anchors, soil nails and rock bolts; reinforced earth structure; basement. 
Assessment: 30% Continuous assessment, 70% examination

CIVL3032. Geotechnical testing, instrumentation and monitoring (6 credits)

Single and multistage triaxial tests; principles of common laboratory transducers; basic instrument response; sampling and digitization; observational method; field instrumentation and construction monitoring; case histories.
Prerequisite: CIVL2006 Soil mechanics
Assessment: 15% practical work, 15% Continuous assessment, 70% examination

CIVL3033. Ground improvement (6 credits)

Ground modification techniques; deep compaction and vibro-compaction; vertical drains and electro-osmosis; grouting; soil and rock anchors; soil reinforcement; embankments; control of ground water. 
Prerequisite: CIVL2006 Soil mechanics
Assessment: 20% Continuous assessment, 80% examination
CIVL.3034. Environmental Geotechnology (6 credits)

Introduction to environmental geotechnology; municipal waste management; environmental site assessment; contaminant transport in the subsurface; interactions between chemicals and geomaterials; hazardous waste remediation technologies.

Prerequisite: CIVL.2006 Soil mechanics
Assessment: 30% Continuous assessment, 70% examination

For the double degree in BEng/BBA, students may take business elective courses in HRM or Marketing major offered by the Faculty of Business and Economics to satisfy up to a maximum of 12 credits of Civil Engineering elective courses.

Advanced Elective Course

Elective Course (9 credits)

Students are expected to select 9 credits of Advanced courses offered by either the Department of Civil Engineering or other department(s) within or outside of the Faculty of Engineering.

Minor Programmes (not applicable to candidates from the Department of Civil Engineering)

In the 2011-12 academic year, candidates from other departments in the Faculty of Engineering or from other faculties may pursue a Minor in Environmental Engineering or Minor in Geotechnical Engineering.

Minor in Environmental Engineering

Candidates are required to complete a total of 36 credits of courses comprising:

(a) Introductory courses (12 credits)

Students are required to complete ENGG1006 Engineering for sustainable development* (6 credits) AND CIVL1012 Environmental engineering and fluid mechanics (6 credits).

* Students opting for the Minor cannot use the course ENGG1006 Engineering for sustainable development as satisfying the requirements of the General Engineering Course.

(b) Advanced Elective courses (24 credits)

Students must complete 24 credits of advanced elective courses to be chosen from the following list:

CIVL2004 Hydraulics and hydrology (6 credits)
CIVL3006 Engineering hydraulics (6 credits)
CIVL3007 Environmental impact assessment of civil engineering projects (6 credits)
CIVL3011 Municipal and industrial wastewater treatment (6 credits)
CIVL3015 Solid and hazardous waste management (6 credits)
CIVL3021 Water resources engineering (6 credits)
CIVL3022 Wind engineering (6 credits)
Minor in Geotechnical Engineering

Candidates are required to complete a total of 36 credits of courses comprising:

(a) Introductory courses (12 credits)

Students are required to complete ENGG1003 Mathematics I (6 credits) AND CIVL2006 Soil Mechanics (6 credits).

(b) Advanced Elective courses (24 credits)

Students must complete 24 credits of advanced elective courses to be chosen from the following list:

- CIVL2002 Engineering geology and rock mechanics (6 credits)
- CIVL3008 Foundation engineering (6 credits)
- CIVL3014 Slope engineering (6 credits)
- CIVL3029 Numerical analysis in geotechnical engineering (6 credits)
- CIVL3031 Earth retaining system (6 credits)
- CIVL3032 Geotechnical testing, instrumentation and monitoring (6 credits)
- CIVL3033 Ground improvement (6 credits)
- CIVL3034 Environmental Geotechnology (6 credits)

Double-Degrees in BEng/BBA Option

Candidates pursuing studies for the double-degrees in BEng/BBA are required to satisfy all the requirements of the above BEng curriculum and pass 54 credits of courses as listed below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI1002</td>
<td>Introduction to accounting</td>
<td>6</td>
</tr>
<tr>
<td>BUSI1003</td>
<td>Introduction to management information system</td>
<td>6</td>
</tr>
<tr>
<td>BUSI1004</td>
<td>Marketing</td>
<td>6</td>
</tr>
<tr>
<td>BUSI1007</td>
<td>Principles of management</td>
<td>6</td>
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<tr>
<td>ECON1001</td>
<td>Introduction to economics I</td>
<td>6</td>
</tr>
<tr>
<td>FINA1003</td>
<td>Corporate finance</td>
<td>6</td>
</tr>
<tr>
<td>BUSI0027</td>
<td>Management accounting I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Business Electives (Any 2 courses in Finance, HRM or Marketing major)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>54</td>
</tr>
</tbody>
</table>

Candidates pursuing the double-degrees in BEng/BBA are granted exemptions from the following courses:

<table>
<thead>
<tr>
<th>Courses in the BEng curriculum to be exempted</th>
<th>Business courses to be completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAES1505 Professional and technical written communication for engineers (3 credits)</td>
<td>CAES1907 Business communication (3 credits)</td>
</tr>
<tr>
<td>CIVL2008 Principles of civil engineering management (6 credits)</td>
<td>BUSI1007 Principles of management</td>
</tr>
<tr>
<td>One Advanced Elective Course in Civil Engineering (6 credits)</td>
<td>BUSI1003 Introduction to management information system or other equivalent Business course as approved by the Department of Civil Engineering and the Faculty</td>
</tr>
<tr>
<td>One Advanced Elective Course (6 credits)</td>
<td>One 6-credit Business Elective course</td>
</tr>
</tbody>
</table>