Recommended Study Plan for Students Entering Major in 2015/16

Minimum Graduation Requirements

	Normative 4-year degree Credit Units (CUs)	Advanced Standing I (ASI) Credit Units (CUs)	Advanced Standing II (ASII) Credit Units (CUs)
Core courses	63[a]	63[a]	60[a]
Elective courses	12[b]	12[b]	12[b]
University English Requirements	6[c]	6[c]	3
Chinese Civilization	3	3	Not required
Gateway Education (Area Requirements)	12[e]	6	3
College/School-specified Courses	9[f]	6[^]	6[^]
College Requirement	6[g]	0	0
Free Electives	9[h]	See note h	See note h
Minimum number of credits required for the award:	**120[d]**	**96[d]**	**84**

Note:
   a. Including EE4093 Engineering Training I for Information Engineering, EE4095 Engineering Training II for Information Engineering, and EE3013 Engineers in Society, which carry no credit unit. CS2311 (3 CUs) has been waived for Advanced Standing II students.

   b. Students are required to take at least FOUR electives (12 CUs) of which no more than ONE Level-3 elective should be taken. For details of the course pre-requisite requirement, please refer to http://www.ee.cityu.edu.hk/main/student/ for major and course information.

   c. Normative 4-year degree and ASI students entering without Level 4 in HKDSE English Language or Grade D in HKALE AS Use of English are required to take a year-long EL0200 English for Academic Purposes (EAP) of 6 credit units before progressing to GE1401 University English and GE2410 English for Engineering. Credits earned from the EAP course will not be counted towards the minimum credit units required for graduation nor be calculated in students' CGPA. Students who are not admitted through JUPAS are invited upon enrolment to take the English Placement Test or to provide proof of alternative qualifications to be exempted from ELC course (http://www.cityu.edu.hk/elc/courses_exemption.html).

   d. Normative 4-year degree and ASI students entering without Level 4 in HKDSE Chinese Language or Grade D in HKALE AS-level Chinese Language and Culture are required to take a 3-credit-unit course CHIN1001 University Chinese I. The credits earned will not be counted towards the minimum credit units required for graduation nor be calculated in students' CGPA.

   e. Normative 4-year degree students are required to take a minimum of 3 CUs from each of the following specified areas – 1/ Arts and Humanities, 2/ Study of Societies, Social and Business Organizations, and 3/ Science and Technology.

f. College/School-specified courses for fulfilling the Gateway Education requirement

MA1200/ MA1300	Calculus and Basic Linear Algebra I/ Enhanced Calculus and Linear Algebra I	3 credit units
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II	3 credit units
CS1102/ CS1302	Introduction to Computer Studies/ Introduction to Computer Programming	3 credit units

^ ASI and ASII students are required to take 6 credit units of MA courses from the above pairs. Students exempted from either one or both of the above MA courses should take any course(s) not within the Major Requirement (including core courses and electives) to make up for the minimum curriculum requirement.

g. Normative 4-year degree students are required to take two courses (6 CUs) out of three for their College requirement. Courses include AP1201 General Physics I, BCH1100 Chemistry, and BCH1200 Discovery in Biology.

h. Normative 4-year Degree students are required to take 9 credit units of free electives to make up the minimum credits requirement, while Advanced Standing I students may choose to earn credits from free electives or minor courses which will be counted in addition to the minimum credit units for graduation, unless course exemption has been granted to course(s) in the degree programme requirement. Advanced Standing II students will not have spare credits to take free electives unless course exemption has been granted in degree programme requirement.

Year 2 (Semester A)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/AS I/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE2000	Logic Circuit Design	3	Nil	Nil	3	3	3
EE2108	Engineering Analysis	3	(MA1200 or MA1300) *	(MA1201 or MA1301)*	3	3	0-3
CS2311#	Computer Programming	3	(CS1102 or CS1302) *	Nil	0-3	0-3	0-3
MA2001	Multi-variable Calculus and Linear Algebra	3	(MA1200 or MA1300) & (MA1201 or MA1301) or A Pass in AL Pure Maths or Applied Maths or equivalent	Nil	3	N.A.	N.A.
MA1200	Calculus and Basic Linear Algebra I	3 (note f)	Nil	Nil	N.A.	N.A.	3
MA1201	Calculus and Basic Linear Algebra II	3 (note f)	MA1200	Nil	N.A.	3	N.A.
Technical Course Total (CUs):					**9-12**	**9-12**	**6-12**

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above, subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

EL0200 English for Academic Purposes (6 credit units)#

- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

Maximum Total (CUs):					**18**	**18**	**18**

* Applicable to Normative 4-year degree students only

Not applicable to Advanced Standing II students

Year 2 (Semester B)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/AS I/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE2004	Microcomputer Systems	3	Nil	EE2000 & CS2311	3	3	3
EE2108	Engineering Analysis	3	(MA1200 or MA1300)*	(MA1201 or MA1301)*	N.A.	N.A.	3
EE2301	Basic Electronic Circuits	3	Nil	Nil	3	3	3
EE2311	Object-Oriented Programming & Design	3	CS2311	Nil	3	3	3
MA3001	Differential Equations	3	MA2001	Nil	3	N.A.	N.A.
MA2001	Multi-variable Calculus and Linear Algebra	3	(MA1200 or MA1300) & (MA1201 or MA1301) or A Pass in AL Pure Maths or Applied Maths or equivalent	Nil	N.A.	3	N.A.
MA1201	Calculus and Basic Linear Algebra II	3	MA1200	Nil	N.A.	N.A.	3
Technical Course Total (CUs):					**12**	**12**	**15**

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above, subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

EL0200 English for Academic Purposes (6 credit units)#

- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

Maximum Total (CUs):					**18**	**18**	**18**

* Applicable to Normative 4-year degree students only

\# Not applicable to Advanced Standing II students

Year 2 (Summer)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/ASI/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE4093	Engineering Training I for Information Engineering	0	CS2311	Nil	0	0	0
MA3001	Differential Equations	3	MA2001	Nil	N.A.	3	N.A.
				Technical Course Total (CUs):	0	3	0

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above, subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

- EL0200 English for Academic Purposes (6 credit units)#
- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

				Maximum Total (CUs):	7	7	7

* Applicable to Normative 4-year degree students only
\# Not applicable to Advanced Standing II students

Year 3 (Semester A)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/ASI/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE2331	Data Structures and Algorithms	3	CS2311	Nil	3	3	3
EE3009	Data Communications & Networking	3	EE2000 or EE2301	Nil	3	3	3
EE3210	Signals and Systems	3	MA2001	Nil	3	3	N.A.
EE3313	Applied Queueing Systems	3	MA1201 or MA1301 or (note f)	MA2001	3	3	3
MA2001	Multi-variable Calculus and Linear Algebra	3	(MA1200 or MA1300) & (MA1201 or MA1301) or A Pass in AL Pure Maths or Applied Maths or equivalent	Nil	N.A.	N.A.	3
	Technical Course Total (CUs):				**12**	**12**	**12**

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above, subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

- EL0200 English for Academic Purposes (6 credit units)#
- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

Maximum Total (CUs):	**18**	**18**	**18**

* Applicable to Normative 4-year degree students only

Not applicable to Advanced Standing II students

Year 3 (Semester B)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/ASI/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE3008	Principles of Communications	3	MA2001 & EE3210$^\Delta$	Nil	3	3	3
EE3315	Internet Technology	3	EE3009	Nil	3	3	3
EE3316	Information Product Design	3	EE2004 & EE2311	Nil	3	3	3
CS3402	Database Systems	3	CS2311	Nil	3	3	3
EE3210	Signals and Systems	3	MA2001	Nil	N.A.	N.A	3
MA3001	Differential Equations	3	MA2001	Nil	N.A.	N.A.	3
Technical Course Total (CUs):					**12**	**12**	**18**

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above, subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

- EL0200 English for Academic Purposes (6 credit units)#
- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

Maximum Total (CUs):					**18**	**18**	**18**

Δ Co-requisite: to be taken before or together with the course
* Applicable to Normative 4-year degree students only
# Not applicable to Advanced Standing II students

Year 3 (Summer)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/ASI/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE4095	Engineering Training II for Information Engineering	0	Note 1		0		
Technical Course Total (CUs):					**0**		

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above, subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

- EL0200 English for Academic Purposes (6 credit units)#
- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

Maximum Total (CUs):	**7**

Note 1:

- EE4095 (Part A Industrial Attachment Scheme): EE4093; EE2311 and Pre-attachment Training
- EE4095 (Part B In-house Training): EE4093 and EE2311
- EE4095 (Part C Summer Placement Scheme): EE4093 and EE2311

* Applicable to Normative 4-year degree students only

Not applicable to Advanced Standing II students

Year 4 (Semester A)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/ASI/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE3013	Engineers in Society	0	At least 60 CUs (Normative 4-year degree) of the <mark>Major Requirement , College Requirement and College-specified GE Courses</mark> / 43 CUs ^Δ (ASI) / 40 CUs ^Δ (ASII) of the curriculum have been completed	Nil	0		
EE4221	Cloud Computing Systems	3	EE2004	Nil	3		
EE4382	Project	4.5	At least 54 CUs (Normative 4-year degree) of the Major Requirement , College Requirement <mark>and College-specified GE Courses</mark> / 39 CUs ^Δ (ASI) / 36 CUs ^Δ (ASII) of the major requirement have been completed	Nil	4.5		
CS3103	Operating Systems	3	Nil	EE2004 & CS2311	3		
2 Technical Elective Courses		6	Note b	Note b	6		
Technical Course Total (CUs):					**16.5**		

Δ Credits of exempted courses are counted regardless of the completion time of replacement courses. <mark>Students completed full requirement in College-specified courses (MA1200/MA1201/MA1300/MA1301) can have one course counted towards the credit unit requirement specified above.</mark>

Year 4 (Semester B)

Code	Title	CU	Pre-requisite	Precursor	Course plan for students of different qualifications		
					Normative 4-year/ASI/ASII MA1200/MA1300 & MA1201/ MA1301 Requirement (Math I and Math II in short)		
					Normative Completed both Math I & II ASI & ASII Math I & II Exempted	Normative Still require Math II ASI & ASII Math I Exempted	Normative Still require both Math I & II ASI & ASII No Exemption granted on Math I & II
EE4382	Project	4.5	At least 54 CUs (Normative 4-year degree) of the Major Requirement , College Requirement and College-specified GE Courses / 39 CUs ^Δ (ASI) / 36 CUs ^Δ (ASII) of the Major Requirement have been completed	Nil	4.5		
2 Technical Elective Courses		6	Note b	Note b	6		
Technical Course Total (CUs):					**10.5**		

Students are advised to complete the following degree and language requirements as early as possible alongside those technical courses as advised above,

subject to credit limit and their offering schedule. Please refer to p.6 for corresponding requirements for Normative 4-year degree, ASI and ASII students.

- EL0200 English for Academic Purposes (6 credit units)#
- GE1401 University English (3 credit units)#
- GE2410 English for Engineering (3 credit units)
- GE1501 Chinese Civilization – History and Philosophy (3 credit units)#
- CHIN1001 University Chinese I (3 credit units)#
- Gateway Education (Area Requirements)
- Free Electives (9 credit units)*

Maximum Total (CUs):	**18**

Δ Credits of exempted courses are counted regardless of the completion time of replacement courses. Students completed full requirement in College-specified courses (MA1200/MA1201/MA1300/MA1301) can have one course counted towards the credit unit requirement specified above.

* Applicable to Normative 4-year degree students only

Not applicable to Advanced Standing II students