Course Assessment Table
BEng(Hons) in Information Engineering
2015/16 Entering Major

The offering schedule specified below is under normal circumstances, and might be subject to change due to different timetabling and teaching assignment constraints in different years. Students may take it as reference and please pay attention to the master class schedule announced by the Academic Regulations and Records Office (ARRO) prior to each semester for course registration and add/drop arrangement. Also, courses will be arranged in day or evening sessions catering for the different timetable patterns of students.

A/ Core Courses

Pre-cursor	Pre-requisite	Offered in Sem	Course Code & Title		CU	Lec	Tut	Lab	Ttl	C %	X %	Exam Dur	W	Equivalent Course	Remarks
MA1201 or MA1301 (Note a)	MA1200 or MA1300 (Note a)	A & B	EE2000	Logic Circuit Design	3	39	13	15	67	40	60	2	1		Note 2
		A & B	EE2108	Engineering Analysis	3	39	13	0	52	50	50	2	1		Note 1
	CS1102 or CS1302(Note a)	A & B	CS2311$^\Lambda$	Computer Programming	3	26	0	26	52	40	60	2	1		Note 3
	(MA1200 or MA1300) & (MA1201 or MA1301) or (Note b)	A & B	MA2001	Multi-variable Calculus and Linear Algebra	3	39	13	0	52	30	70	2	1		Note 3
EE2000 & CS2311		A & B	EE2004	Microcomputer Systems	3	39	8/13	15	62/67	40	60	2	1		Note 7
		A & B	EE2301	Basic Electronic Circuit	3	39	13	15	67	50	50	2	1		Note 2
	CS2311	A & B	EE2311	Object-Oriented Programming and Design	3	26	26	0	52	50	50	2	1		Note 1
	MA2001	B & S	MA3001	Differential Equations	3	39	13	0	52	30	70	2	1		Note 3
MA2001	CS2311	A & B	EE2331	Data Structures and Algorithms	3	39	26	0	65	40	60	2	1		Note 1
	EE2000 or EE2301	A & B	EE3009	Data Communications and Networking	3	39	13	12	64	40	60	2	1		Note 2
	MA2001	A & B	EE3210	Signals and Systems	3	26	13	0	39	40	60	2	1		Note 1
	(MA1201 or MA1301) or (Note b)	A & B	EE3313	Applied Queueing Systems	3	26	13	0	39	30	70	2	1		Note 1
	MA2001 & EE3210 (Note c)	A & B	EE3008	Principles of Communications	3	26	13	0	39	30	70	2	1		Note 1
	EE3009	B	EE3315	Internet Technology	3	26	9	12	47	30	70	2	1		Note 2
	EE2004 & EE2311	B	EE3316	Information Product Design	3	0	0	39	39	100	0	-	1		Note 5
	CS2311	B	CS3402	Database Systems	3	26	13	0	39	40	60	2	1		Note 3
	(Note d)	A & B	EE3013$^\Phi$	Engineers in Society	0	12	8	0	20	100	0	-	1		Note 4
	EE2004	A & B	EE4221	Cloud Computing Systems	3	26	0	13	39	30	70	2	1		Note 2

Pre-cursor	Pre-requisite	Offered in Sem	Course Code & Title		CU	Lec	Tut	Lab	Ttl	C %	X %	Exam Dur	W	Equivalent Course	Remarks
EE2004 & CS2311		A & B	CS3103	Operating Systems	3	26	13	0	39	40	60	2	1		Note 3
	(Note e)	A & B	EE4382	Project	9	Other activities: 144		208	352	100	0	-	1		Note 8*
	CS2311	S	EE4093	Engineering Training I for Information Engineering	0	0	0	70	70	100	0	-	1		Note 6
	(Note f)	S	EE4095	Engineering Training II for Information Engineering	0	0	0	**		100	0	-	1		Note 6

Key : CU = Credit Unit   Lec = Lecture   Tut = Tutorial   Lab = Laboratory   C = Coursework   X = Examination
Exam Dur   =   Exam Duration   W   =   GGPA Weighting (per CU)   S/A/B   =   Summer Semester/Semester A/Semester B
D/E = Day Session / Evening Session

Remarks for Pre-requisite, Co-requisite:

Note a: Applicable to Normative 4–year degree students only

Note b: Advanced Standing I and II (ASI and II) students without relevant mathematical background including HKALE AL Applied Maths or Pure Maths are required to take 6 credit units of College/ School-specified courses namely MA1200 Calculus & Basic Linear Algebra I/ MA1300 Enhanced Calculus & Linear Algebra I AND MA1201 Calculus & Basic Linear Algebra II/ MA1301 Enhanced Calculus & Linear Algebra II, unless they pass the placement test offered by Mathematics Department. Students granted exemption on either one or both of the course(s) should take any course(s) not within the Major Requirement (including core courses and electives) to make up for the minimum curriculum requirement.

Note c: Co-requisite: to be taken before or together with the course.

Note d: At least 60 credit units (Normative 4–year degree) of the Major Requirement, College Requirement and College-specified GE courses have been completed / 43 credit units (ASI) / 40 credit units (ASII) of the Major Requirement have been completed. Credits of exempted courses for ASI & II 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.

Note e: At least 54 credit units (Normative 4–year degree) of the Major Requirement, College Requirement and College-specified GE Courses / 39 credit units (ASI) / 36 credit units (ASII) of the Major Requirement have been completed. (Major requirement excludes Gateway Education and Language requirements). Credits of exempted courses for ASI & II 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.

Note f: 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

Remarks for course assessment:

Note 1 : To pass the course, students are required to achieve at least 35% 30% in coursework and 35% 30% in the examination.

Note 2 : To pass the course, students are required to achieve at least 35% 30% in coursework and 35% 30% in the examination. Also, 75% laboratory attendance rate must be obtained.

Note 3 : For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

Note 4 : The assessment is purely on a pass/fail basis. To pass the course, students are required to achieve at least 50% in quizzes, 50% in presentation and 50% in Presentation Workshops in reports and other assignments.

Note 5 : To pass the course, students are required to achieve at least 40% of the coursework mark and a laboratory attendance of at least 75% recorded.

Note 6 : Pass/Fail Basis. To pass the course, students are required to have a laboratory attendance of 100% recorded.

Note 7 : To pass the course, students are required to achieve at least 35% 30% in coursework and 35% 30% in the examination. When the laboratory experiments are involved in Teaching and Learning Activities (TLA), 75% laboratory attendance rate must be obtained. When the mini-project is involved in TLA, 75% tutorial attendance rate must be obtained

Note 8 : To pass the course, students are required to (i) conduct an oral presentation, (ii) achieve an overall pass (D) grade or above, and (iii) both supervisor and assessor have not assigned a final Fail Grade.

Other remarks:

*   Students undertaking Co-operative Education Scheme (CES) Placement Project should register on EE4382 Project to fulfil the Final Year Project requirement.

**   Part A (Industrial Attachment Scheme): 9-13 weeks; Part B (In-house Training): 5 weeks (150 contact hours); Part C (Summer Placement Scheme): 9-13 weeks

Δ   Waived for Advanced Standing II students

Φ   Students having completed EE4081 Professional Internship Program (6CU) will take one less elective (3CU) and are not required to take EE3013 Engineers in Society (0CU)

B/ Technical Electives

Students are required to take at least FOUR technical electives of which no more than ONE Level-3 elective should be taken.

Pre-cursor	Pre-requisite	Offered in Sem	Course Code & Title	CU	Contact Hours			C %	X %	Exam Dur	W	Equivalent Course	Remarks
					Lec	Tut/Lab	Ttl						
	CS2311	A	EE3209 Data Management Techniques	3	26	13/0	39	40	60	2	1		Note 1
	EE3008	A	EE4036 Wireless Communications	3	39	0	39	30	70	2	1		Note 1
	MA2001 & EE3210	A	EE4206 Digital Image Processing	3	26	13/0	39	30	70	2	1		Note 1
EE2331 & EE3313 & MA3001	MA2001 & CS2311	A	EE4208 Computer Graphics for Engineers	3	26	13#/0	39	40	60	2	1		Note 1
~~MA3001~~ EE3009	MA2001 & ~~EE3210~~ EE3313	A	EE4212 Information and Coding	3	26	13/0	39	30	70	2	1		Note 1
	MA3001 or EE3313	A	EE4215 Security Technology	3	31	5/3	39	40	60	2	1		Note 1
	EE2311 & CS3103	A	EE4216 Internet Client-Server Computing	3	26	13/0	39	50	50	2	1	CS4273^	Note 1
	EE2004	A	EE4218 Computer Architecture	3	26	13/0	39	30	70	2	1		Note 1
	EE2311 & EE2004	A	EE4304 iOS Mobile App Development and Networking	3	20	4/15	39	70	30	1.5	1		Note 4
EE2331		A	CS4335 Design and Analysis of Algorithms	3	26	13/0	39	30	70	2	1		Note 3
	CS3402	A	CS4482 Advanced Database Systems	3	26	13/0	39	30	70	2	1		Note 3
	EE3313	B	EE4011 Performance Evaluation of Communication Networks	3	26	13/0	39	30	70	2	1		Note 1
	EE3009	B	EE4014 Business Data Communication Networks	3	26	13#/0	39	50	50	2	1		Note 2
	MA3001	B	EE4146 Data Informatics and Learning Systems	3	25	5/9	39	40	60	2	1		Note 2
	EE3210	B	EE4209 Digital Audio Technology	3	26	13/0	39	30	70	2	1		Note 1
	CS2311	B	EE4213 Human-Computer Interaction	3	26	13#/0	39	40	60	2	1		Note 1
	EE2004 & EE2331	B	EE4217 Digital Storage Technology	3	31	5/0	36	30	70	2	1		Note 1

Key : CU = Credit Unit Lec = Lecture Tut = Tutorial Lab = Laboratory C = Coursework X = Examination
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Note 1 : To pass the course, students are required to achieve at least ~~35%~~ 30% in coursework and ~~35%~~ 30% in the examination.

Note 2 : To pass the course, students are required to achieve at least ~~35%~~ 30% in coursework and ~~35%~~ 30% in the examination. Also, 75% laboratory attendance rate must be obtained.

Note 3 : For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

Note 4 : To pass the course, students are required to achieve at least ~~35%~~ 30% in the practical mid-term exam, ~~35%~~ 30% in the examination and a minimum of 75% laboratory attendance.

: Some of the tutorials will be conducted in the laboratory

^ : Exclusive course

Course Assessment Table

Technical Electives: continued

Pre-cursor	Pre-requisite	Offered in Sem	Course Code & Title		CU	Contact Hours			C %	X %	Exam Dur	W	Equivalent Course	Remarks
						Lec	Tut/Lab	Ttl						
	EE3009 & EE3313	B	EE4316	Mobile Data Networks	3	26	13/0	39	30	70	2	1		Note 1
	CS2311	B	CS3391	Advanced Programming	3	39		39	60	40	2	1		Note 3
	EE3008$^\Delta$	A & B	EE3101	Communication Engineering	3	26	13/9	48	40	60	2	1		Note 2
	EE3210	A & B	EE4015	Digital Signal Processing	3	39	0	39	40	60	2	1		Note 1
	CS2311	A or B	CS3367	Essentials of Software Engineering	3	26	13/0	39	50	50	2	1		Note 3
	EE3009	A or B	CS4273	Distributed System Technologies & Programming	3	26	13/0	39	30	70	2	1	EE4216^	Note 3
	EE3009	A or B	CS4274	Distributed Computing Technologies	3	26	13/0	39	30	70	2	1		Note 3
		A or B	CS4367	Computer Games Design	3	26	13/0	39	40	60	2	1		Note 3

C/ Optional One-year Internship

Pre-cursor	Pre-requisite	Offered in Sem	Course Code & Title		CU	Contact Hours			C %	X %	Exam Dur	W	Equivalent Course	Remarks
						Lec	Tut/Lab	Ttl						
		A/B/S	EE4081	Professional Internship Program	6	8 -12 months			100	0	-	1		Φ

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Exam Dur = Exam Duration   W = GGPA Weighting (per CU)   S/A/B = Summer Semester/Semester A/Semester B

Note 1 : To pass the course, students are required to achieve at least ~~35%~~ 30% in coursework and ~~35%~~ 30% in the examination.
Note 2 : To pass the course, students are required to achieve at least ~~35%~~ 30% in coursework and ~~35%~~ 30% in the examination. Also, 75% laboratory attendance rate must be obtained.
Note 3 : For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

Δ : Co-requisite – to be taken before or together with the course
^ : Exclusive course
Φ : Students having completed EE4081 Professional Internship Program (6CU) will take one less elective (3CU) and are not required to take EE3013 Engineers in Society (0CU).

Course Assessment Table

D/ Gateway Education (GE)

Pre-requisite	Offered in Sem	Course Code & Title	CU Normative 4-year degree	ASI	ASII	Contact Hours Lec/Tut/Lab	Ttl	C %	X %	Exam Dur (hrs)	W	Remarks
		GE English										*
Level 4 in HKDSE English Language OR Grade D in HKALE AS Use of English or EL0200	B	- GE1401 University English	3	3	**	39	39	100	0	-	1	
Level 4 in HKDSE English Language OR Grade D in HKALE AS Use of English or EL0200	A	- GE2410 English for Engineering *(Discipline-Specific English)*	3	3	3	39	39	100	0	-	1	
		Chinese Civilization										
	A/B	- GE1501 Chinese Civilisation – History and Philosophy	3	3	**	26/26	52	100	0	-	1	
	A/B/S	**Gateway Education (Area Requirements)**	21#	6	3	Please refer to the course information for details.					1	
		- Area 1: Arts and Humanities										
		- Area 2: Study of Societies, Social and Business Organisations										
		- Area 3: Science and Technology										
	A/B/S	**College/School-specified Courses**	9	6^	6^							^
		- MA1200 Calculus and Basic Linear Algebra I/ MA1300 Enhanced Calculus and Linear Algebra I (3CUs)										
		- MA1201 Calculus and Basic Linear Algebra II/ MA1301 Enhanced Calculus and Linear Algebra II (3CUs)										
		- CS1102 Introduction to Computer Studies/ CS1302 Introduction to Computer Programming (3 CUs)										

English Language Requirement

* 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).

** Not necessary for Advanced Standing II students

\# A minimum of 3 credit units must be obtained from each of the three areas

^ Not applicable to normative 4-year degree students. ASI and ASII 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.

Course Assessment Table

E/ Language Requirements

Pre-cursor	Pre-requisite	Offered in Sem	Course Code & Title	CU	Contact Hours Lec/Tut/Lab	Contact Hours Ttl	C %	X %	Exam Dur (hrs)	W	Remarks
	Level 3 in HKDSE English Language OR Grade E in HKALE AS Use of English OR other acceptable entrance qualification in English	A/B/S	**English Language Requirement** - EL0200 English for Academic Purposes (EAP)**	6	144	144	45	55	1.75	0	*,#
	Level 3 in HKDSE Chinese Language OR Grade E in HKALE AS Chinese Language and Culture	A/B	**Chinese Language Requirement** - CHIN1001 University Chinese I**	3	39	39	100	0	-	0	@

Key : CU = Credit Unit   Lec = Lecture   Tut = Tutorial   Lab = Laboratory   C = Coursework   X = Examination
Exam Dur   =   Exam Duration   W   =   GGPA Weighting (per CU)   S/A/B   =   Summer Semester/Semester A/Semester B

English Language Requirement

* Normative 4-year degree and Advanced Standing I students entering without Level 4 in HKDSE English Language or Grade D in HKALE AS Use of English (UE) or its equivalent 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. Acceptable alternative qualifications for exemption from EL0200 can be referred to http://www.cityu.edu.hk/elc/courses_exemption.html.

\# After the first attempt at EL0200, only two repeat attempts are permitted in line with the University's policy. Students have the following options to recover a failure:
  (i)   Repeat the whole EAP programme (This is highly recommended for students who fall far below the passing standard);
  (ii)   Take EL0200E, a short EAP extension 24-hour programme (This is recommended for students who fail marginally);
  (iii)   Take EL0200X for the EAP examination only.

For details, please visit http://www.cityu.edu.hk/elc/courses_failure.html

Chinese Language Requirement

@ Normative 4-year degree and Advanced Standing I students entering without Level 4 in HKDSE Chinese Language or Grade D in HKALE AS-level Chinese Language & 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 and will not be calculated in students' CGPA.

**   Not necessary for Advanced Standing II students