Last updated 28Aug 2019

Course Assessment Table

BEng in Information Engineering
2018/19 Entering Major

For offering schedule of the following courses, please refer to the Master Class Schedule which is published on a yearly basis to enable students to plan their studies ahead for the entire academic year. The class schedules are subject to change prior to the start of the respective semester/term. Students can view the Master Class Schedule by logging onto CityU Portal and selecting "Master Class Schedule" from "Academic Services" under "Student".

A/ Core Courses

Pre-cursor	Pre-requisite	Course Code & Title	CU	Contact Hours				C %	X %	Exam Dur	Remarks
				Lec	Tut	Lab	Ttl				
	(Note a)	GE1354 Introduction to Electronic Design	3	26	0	14	40	50	50	2	
	EE1001	EE2000 Logic Circuit Design	3	39	13	15	67	40	60	2.5	
EE1001& MA1201		EE2302 Foundations of Information and Data Engineering	3	26	13	0	39	30	70	2	
	CS1102 or CS1302 (Note a)	CS2311[Δ] Computer Programming	3	26	0	26	52	40	60	2	
	(MA1200 or MA1300) & (MA1201 or MA1301) or (Note b)	MA2001 Multi-variable Calculus and Linear Algebra	3	39	13	0	52	30	70	2	
	EE2000 & CS2311	EE2004 Microcomputer Systems	3	39	8/26	15/0	62/65	40	60	2	
		EE2301 Basic Electronic Circuits	3	39	13	15	67	50	50	2	
	CS2311	EE2331 Data Structures and Algorithms	3	39	26	0	65	40	60	2.5	
	MA2001	MA3160 Probability and Stochastic Processes	3	39	7	0	46	30	70	2	
	EE2331	EE3206 Java Programming and Applications	3	26	26	0	52	50	50	2.5	
EE2000		EE3009 Data Communications and Networking	3	26	13	12	51	40	60	2	
	MA2001	EE3210 Signals and Systems	3	26	13	0	39	40	60	2	
EE2004 & CS2311		CS3103 Operating Systems	3	26	13	0	39	40	60	2	
	MA2001 & EE3210 (Note c)	EE3008 Principles of Communications	3	26	13	0	39	30	70	2	
EE2302 & EE3009	MA2001	EE3301 Optimization Methods for Engineering	3	26	13	0	39	30	70	2	
	EE3009	EE3315 Internet Technology	3	26	9	12	47	30	70	2	
	Part I : EE2000 & EE2301 & CS2311	EE3070 Design Project	1.5	0	0	39	39	100	0	-	
	Part II : EE3070 Part I & EE2004	EE3070 Design Project	1.5	0	0	39	39	100	0	-	
	CS2311	CS3402 Database Systems	3	26	13	0	39	40	60	2	

Key : CU = Credit Unit Lec = Lecture Tut = Tutorial Lab = Laboratory C = Coursework X = Examination
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Pre-cursor	Pre-requisite	Course Code & Title		CU	Contact Hours				C %	X %	Exam Dur	Remarks
					Lec	Tut	Lab	Ttl				
	EE4093	EE3012$^{\Phi}$	Engineers in Society	3	18	8	0	26	50	50	1.5	
	(Note d)	EE4080	Project	6	Other activities: 144		208	352	100	0	-	*
	CS2311	EE4093	Engineering Training I for Information Engineering	0	0	0	70	70	100	0	-	
	(Note e)	EE4095	Engineering Training II for Information Engineering	0	0	0	**		100	0	-	

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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 are required to take 6 credit units of College-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 63 credit units (Normative 4–year degree) of the Major Requirement, College Requirement and College-specified GE Courses have been completed / 39 credit units (ASI) / 36 credit units (ASII) of the Major Requirement have been completed.
For Advanced Standing students
Note 1: Credits of exempted courses are counted regardless of the completion time of replacement courses.
Note 2: Corresponding reduction in credit requirement applies to ASII students granted with waiver arrangement on courses upon admission.
Note 3: Students completed full requirement in College-specified GE courses (MA1200/MA1201/MA1300/MA1301) can have one course counted towards the credit unit requirement specified above.

Note e: EE4095 (Part A Industrial Attachment Scheme) : EE4093; EE3206 and Pre-attachment Training
EE4095 (Part B In-house Training): EE4093 and EE3206

Other remarks:

* Students undertaking Co-operative Education Scheme (CES) Placement Project should register on EE4080 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);

Δ Waived for Advanced Standing II students

Φ Students having completed EE4081 Professional Internship Program (6CU) are not required to take EE3012 Engineers in Society (3CU) and one other elective (3CU). For those who have completed 12-month internship in EE4081 are not required to take EE4095 Engineering Training II for Information Engineering.

Course Assessment Table

B/ Technical Electives

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

Communications and Networking

Pre-cursor	Pre-requisite	Course Code & Title		CU	Contact Hours			C %	X %	Exam Dur	Remarks
					Lec	Tut/Lab	Ttl				
MA2001	(MA1201 or MA1301) or @ & MA3160$^{\Delta}$	EE3313	Applied Queueing Systems	3	26	13/0	39	30	70	2	
EE3009		EE4014	Business Data Communication Networks	3	26	13$^{\#}$/0	39	50	50	2	
EE3009		EE4017	Internet Finance	3	26	13$^{\#}$/0	39	40	60	2	
EE3008		EE4036	Wireless Communications	3	39	0	39	30	70	2	
EE3009	MA2001 & EE3313 or MA3160	EE4212	Cryptography and Information Theory (Subject to approval)	3	26	13/0	39	30	70	2	
EE3009		EE4316	Mobile Data Networks	3	26	13/0	39	30	70	2	

Computer Systems and Information Processing

Pre-cursor	Pre-requisite	Course Code & Title		CU	Contact Hours			C %	X %	Exam Dur	Remarks
					Lec	Tut/Lab	Ttl				
	CS2311	EE3209	Data Management Techniques	3	26	13/0	39	40	60	2	
	EE3210	EE4015	Digital Signal Processing	3	39	0	39	40	60	2	
	MA2001	EE4016	Engineering Applications of Artificial Intelligence	3	26	13/0	39	50	50	2	
	MA3160	EE4146	Data ~~Informatics~~ Engineering and Learning Systems	3	26	13/0	39	40	60	2	
	MA2001 & EE3210	EE4211	Computer Vision	3	26	13/0	39	60	40	2	
	MA2001	EE4215	~~Security~~ Cybersecurity Technology	3	31	5/3	39	40	60	2	
	EE3206 & EE3009	EE4221	Cloud Computing Systems	3	26	0/13	39	50	50	2	
EE3009	CS2311 & EE2004	EE4222	Digital Forensics	3	26	13/15	54	40	60	2	
	CS3402	CS4482	Advanced Database Systems	3	26	13/0	39	30	70	2	

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: Some of the tutorials will be conducted in the laboratory

Δ : Co-requisite – to be taken before or together with the course

@: Advanced Standing I and II (ASI and II) students without relevant mathematical background are required to take 6 credit units of College-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.

Technical Electives: continued

Software Design and Development

Pre-cursor	Pre-requisite	Course Code & Title		CU	Contact Hours			C %	X %	Exam Dur	Remarks
					Lec	Tut/Lab	Ttl				
EE2331	MA2001 & CS2311	EE4208	Computer Graphics for Engineers	3	26	13#/0	39	40	60	2	
	CS2311	EE4213	Human-Computer Interaction	3	26	13#/0	39	40	60	2	
CS3103	EE3206 & CS3402	EE4216	~~Internet Client Server Computing~~ Modern Web Applications	3	26	13/0	39	60	40	2	
	EE3206	EE4304	iOS Mobile App Development and Networking	3	20	0/19π	39	70	30	1.5	
EE2331		CS4335	Design and Analysis of Algorithms	3	26	13/0	39	30	70	2	
	CS2311	CS3391	Advanced Programming	3		39	60	40	3		
		CS4367	Computer Games Design	3	26	13/0	39	40	60	2	

C/ Optional One-year Internship

Pre-cursor	Pre-requisite	Course Code & Title		CU	Contact Hours			C %	X %	Exam Dur	Remarks
					Lec	Tut/Lab	Ttl				
		EE4081	Professional Internship Program	6	8 -12 months			100	0	-	**Φ**

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: Some of the tutorials will be conducted in the laboratory

π 3 hours workshop

Φ Students having completed EE4081 Professional Internship Program (6CU) will take one less technical elective (3CU) and are not required to take EE3012 Engineers in Society (3CU). For those who have completed 12-month internship in EE4081 are not required to take EE4095 Engineering Training II for Information Engineering.

Course Assessment Table

D/ Gateway Education (GE)

Pre-requisite	Course Code & Title	CU			Contact Hours		C %	X %	Exam Dur (hrs)	Remarks
		Normative 4-year degree	ASI	ASII	Lec/Tut/Lab	Ttl				
	GE English									*
For GE1401 / GE2410 Level 4 in HKDSE English Language OR Grade D in HKALE AS Use of English OR EL0200B OR Grade B or above in EL0200A	- GE1401 University English	3	3	**	39	39	100	0	-	
	- GE2410 English for Engineering *(Discipline-Specific English)*	3	3	3	39	39	100	0	-	
	Chinese Civilization									
	- GE1501 Chinese Civilisation – History and Philosophy	3	3	**	26/26	52	100	0	-	
	Gateway Education (Area Requirements)	12#	6#	3	Please refer to the course information for details.					
	- Area 1: Arts and Humanities									
	- Area 2: Study of Societies, Social and Business Organisations									
	- Area 3: Science and Technology									
	College-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 EL0200A English for Academic Purposes 1 & EL0200B English for Academic Purposes 2 (EAP) of 6 credit units before progressing to GE1401 University English and GE2410 English for Engineering. Early exit arrangement is available that students achieving a grade B or above in their overall course results for EL0200A will be permitted to exit at this point and progress to the GE English courses.

The credits earned from the EAP course(s) 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

\# Normative 4-year degree students are required to take a minimum of 3 CUs from each of the three areas. ASI students are required take their 6 CUs from two different areas.

^ 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.

Course Assessment Table

E/ Language Requirements

Pre-cursor	Pre-requisite	Course Code & Title	CU	Contact Hours Lec/Tut/Lab	Contact Hours Ttl	C %	X %	Exam Dur (hrs)	Remarks
		English Language Requirement							
	Level 3 in HKDSE English Language OR Grade E in HKALE AS Use of English as determine by English Language Centre	- EL0200A English for Academic Purposes 1**	3	39	39	35	65	-	*
	EL0200A	- EL0200B English for Academic Purposes 2 **	3	39	39	60	40	-	*
		Chinese Language Requirement							
	Level 3 in HKDSE Chinese Language OR Grade E in HKALE AS Chinese Language and Culture	- CHIN1001 University Chinese I**	3	39	39	100	0	-	@

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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 EL0200A English for Academic Purposes 1 & EL0200B English for Academic Purposes 2 (EAP) of 6 credit units before progressing to GE1401 University English and GE2410 English for Engineering. Early exit arrangement is available that students achieving a grade B or above in their overall course results for EL0200A will be permitted to exit at this point and progress to the GE English courses.

The credits earned from the EAP course(s) 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).

For failure 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 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.

** Not necessary for Advanced Standing II students