

**Recommended Study Pathway for
HKUST-Exeter Engineering and Law Program
(For student cohorts of 2021-22 and before)**

Contract Law Course**Required to be completed by Year 3 Fall Semester**

	Credits
<i>Contract Law offered by the University of Exeter in Fall semester – required for seeking admission to the HKUST-Exeter Engineering and Law Program[#]</i>	6

[#] Students may receive 6 transfer credits from the Contract Law course on condition that they obtain a passing grade in the course.

Year 1 (HKUST)**Fall Semester (15-16 credits)**

	Credits
[take one course from MATH1012 or MATH1013 or MATH1020 or MATH1023]	3-4
MATH 1012 Calculus 1A	4
MATH 1013 Calculus IB	3
MATH 1020 Accelerated Calculus	4
MATH 1023 Honors Calculus I	3
[take one course from PHYS1112 or PHYS1312]	3
PHYS 1112 General Physics I with Calculus	3
PHYS 1312 Honors General Physics I	3
ENGG 1010 Academic Orientation	0
LANG 1002 English for University Studies I (U Core)	3
University Common Core	3
University Common Core	3

Spring Semester (18-19 credits)

	Credits
[take one course from MATH1014 or MATH1024]	3
MATH 1014 Calculus II	3
MATH 1024 Honors Calculus II	3
[take one course from PHYS1114 or PHYS1314]	3
PHYS 1114 General Physics II	3
PHYS 1314 Honors General Physics II	3
[take one course from COMP1021 or COMP1022P]	3
COMP 1021 Introduction to Computer Science	3
COMP 1022P Introduction to Computing with Java	3

BEng (ELEC)

Year 1 (HKUST)

Spring Semester (18-19 credits) (Cont'd)

			Credits
SENG		Engineering Introduction Course	3-4
ENGG	1010	Academic Orientation	0
LANG	1003	English for University Studies II (U Core)	3
University Common Core			3

Year 2 (HKUST)

Fall Semester (21-22 credits)

			Credits
[take one course from ELEC2600 or ELEC2600H or MATH2011 or MATH2111 or MATH2350 or MATH2351]			3-4
ELEC	2600	Probability and Random Processes in Engineering	4
ELEC	2600H	Honors Probability and Random Processes in Engineering	4
MATH	2011	Introduction to Multivariable Calculus	3
MATH	2111	Matrix Algebra and Applications	3
MATH	2350	Applied Linear Algebra and Differential Equations	3
MATH	2351	Introduction to Differential Equations	3
COMP	2011	Programming with C++	4
ELEC	1100	Introduction to Electro-Robot Design	4
ELEC	1200	A System View of Communications: from Signals to Packets	4
ELEC	2910	Academic and Professional Development I	0
ENGG	2010	Engineering Seminar Series	0
University Common Core			3
University Common Core			3

Spring Semester (17-18 credits)

			Credits
[take one course from ELEC2600 or ELEC2600H or MATH2011 or MATH2111 or MATH2350 or MATH2351]			3-4
ELEC	2600	Probability and Random Processes in Engineering	4
ELEC	2600H	Honors Probability and Random Processes in Engineering	4
MATH	2011	Introduction to Multivariable Calculus	3
MATH	2111	Matrix Algebra and Applications	3
MATH	2350	Applied Linear Algebra and Differential Equations	3
MATH	2351	Introduction to Differential Equations	3
ELEC	2991	Industrial Experience (Electronic Engineering)^	0
ELEC	2350	Introduction to Computer Organization and Design	4
ELEC	2400	Electronic Circuits	4
ELEC	2910	Academic and Professional Development I	0
LANG	2030	Technical Communication I	3
ENGG	2010	Engineering Seminar Series	0
University Common Core			3

BEng (ELEC)

Year 3 (HKUST)

Fall Semester (18-19 credits)

				Credits
[take one course from ELEC2600 or ELEC2600H or MATH2011 or MATH2111 or MATH2350 or MATH2351]				3-4
ELEC	2600	Probability and Random Processes in Engineering	4	
ELEC	2600H	Honors Probability and Random Processes in Engineering	4	
MATH	2011	Introduction to Multivariable Calculus	3	
MATH	2111	Matrix Algebra and Applications	3	
MATH	2350	Applied Linear Algebra and Differential Equations	3	
MATH	2351	Introduction to Differential Equations	3	
[take one course from ELEC2100 or ELEC2100H]				4
ELEC	2100	Signals and Systems	4	
ELEC	2100H	Honors Signals and Systems	4	
ELEC	2991	Industrial Experience (Electronic Engineering)^		0
ELEC	3910	Academic and Professional Development II		0
[take TWO courses from 3000-level or 4000-level ELEC courses]^@				8
ENGG	2010	Engineering Seminar Series		0
University Common Core				3

Spring Semester (18-20 credits)

				Credits
[take TWO courses from 3000-level or 4000-level ELEC courses]^@				6-8
LANG	4031	Technical Communication II		3
ELEC	2991	Industrial Experience (Electronic Engineering)^		0
ELEC	3910	Academic and Professional Development II		0
ENGG	2010	Engineering Seminar Series		0
University Common Core				3
University Common Core				3
University Common Core				3

To ensure adequate preparation for taking Exeter engineering courses, students should check the course details (including offering term and pre-requisite) from the [University of Exeter's website](#) before choosing electives at HKUST.

^ Students should complete safety training + internship/industrial training by Year 3 Summer to satisfy the requirement of ELEC2991.

@ Students should take at least 21 credits of electives. The electives must be at least 3000 level or above. Courses of the subject and level as specified, out of which at least 2 courses must be at 4000-level. ELEC4940 cannot be used to count towards this elective requirement.

BEng (ELEC)

Year 4 (Study at University of Exeter)

Fall and Spring (12 Credits)

		Equivalent course at HKUST
Course required to be taken		
ECM3175	Individual Project	ELEC4900 (Final Year Project)
Select 2 courses from the list of courses offered by the University of Exeter below to fulfill ELEC elective requirements @		
ECM3165/ ECM3166	Digital Signal Processing/ Communications Engineering	ELEC3100
ENG3018	Control Engineering	ELEC3200
ENG2008	Microcontroller Engineering	ELEC3300
ENG3004	Engineering Electromagnetics	ELEC3600
ECM2117	Communication and Networking Technologies	ELEC3120
ECM2118	Analogue and Digital Electronics Design	ELEC3400

Note:

1. Students are allowed to take engineering courses at the University of Exeter in Term 1 & Term 2 during their first year of study there. Term 1 and 2 at the University of Exeter correspond to the Fall term and Spring term at HKUST respectively.
2. For Exeter engineering courses, please note that the course offerings are subject to change and some courses may have pre-requisite(s). Students should check the course details (including offering term and pre-requisite) from the University of Exeter's website prior to arrival at Exeter. The final enrollment of Exeter engineering courses is subject to the approval of the University of Exeter. To play safe, students are expected to be very flexible with course selection and try to identify more courses as far as practicable.
3. The above recommended courses are for students' reference only and do not imply automatic approval for credit transfer. Before taking any Exeter courses, to ensure smooth credit transfer process, students should check ARO's [Credit Transfer Database](#) for the term they will study at the University of Exeter. Should no approved mapping be found, students should raise mapping requests via ARO's [Credit Transfer System for Undergraduate Students](#) and seek advice from their major Departments on equivalent HKUST courses **BEFORE** departure.