

## 6 CURRICULUM AND PROFESSIONAL EXAMINATIONS

### 6.1.1 Curriculum for students admitted with HKDSE

Key: C = Compulsory CA = Continuous Assessment E = Elective EXAM = Examination

Code	Subject Title	C/E	Credit	Assessment CA:EXAM (%)	Pre-requisite (P)/ Co-requisite(Co)/ Exclusion (Ex)
<b>YEAR 1 – SEMESTER 1</b>					
<a href="#">ABCT1101</a> <sup>%</sup>	Introductory Life Science	C	3	50:50	Nil
<a href="#">ABCT1102</a> <sup>%</sup>	General Biology	C	3	50:50	P: ABCT 1101, or Level 3 or above in HKDSE Biology as a full subject or as a component in a Combined Science subject
<a href="#">ABCT1700</a> <sup>&amp;</sup>	Introduction to Chemistry	C	3	50:50	Nil
<a href="#">ABCT1741</a> <sup>&amp;</sup>	General Chemistry I	C	3	50:50	P: ABCT1700 or ABCT1D01, or Level 3 or above in HKDSE Chemistry as a full subject or as a component in a Combined Science subject
<a href="#">AMA1100</a> <sup>*</sup>	Basic Mathematics - An introduction to Algebra and Differential Calculus	C	2	40:60	Ex: HKDSE extended module M1 or M2 (with Level 2 or above)
<a href="#">AP10001</a> <sup>**</sup>	Introduction to Physics	C	3	40:60	Nil
<a href="#">FAST1000</a>	Freshman Seminar – Science To Improve Quality of Life (GUR Subject ##)	C	3	100:00	Nil
<a href="#">APSS1L01</a>	Tomorrow’s Leaders (GUR Subject ##)	C	3		Nil
	Healthy Lifestyle (GUR Subject ##)	C	0		
	English Language <sup>‡</sup> (GUR Subject ##)	C	3		
<b>YEAR 1 – SEMESTER 2</b>					
<a href="#">AMA1006</a>	Basic Statistics	C	2	40:60	P: HKDSE extended module M1 or M2 (with Level 2 or above) or AMA1100
<a href="#">AMA1007</a>	Calculus and Linear Algebra	C	3	40:60	P: HKDSE extended module M1 or M2 (with Level 2 or above) or AMA1100
<a href="#">AP10008</a> <sup>**</sup>	University Physics I	C	3	40:60	Nil
	CAR Subject † (GUR Subject ##)	C	3		
	Chinese Language <sup>‡</sup> (GUR Subject ##)	C	3		
	English Language <sup>‡</sup> (GUR Subject ##)	C	3		

† CAR – Cluster Area Requirement (Please refer to P.9)

Code	Subject Title	C/E	Credit	Assessment CA:EXAM (%)	Pre-requisite (P)/ Co-requisite(Co)/ Exclusion (Ex)
<b>YEAR 2 – SEMESTER 1</b>					
<a href="#">AF2111</a>	Accounting for Decision Making	C	3	50:50	Ex: AF2108 and AF2110
<a href="#">AF1605</a>	Introduction to Economics	C	3	50:50	Nil
<a href="#">AMA2222#</a>	Principles of Programming	C	3	60:40	Ex: AMA2222A
<a href="#">AMA2634</a>	Introduction to Statistics	C	3	40:60	P: AMA1006 or equivalent Ex: AMA2634A
<a href="#">AMA2701</a>	Advanced Calculus and Linear Algebra	C	3	40:60	P: AMA1007 or equivalent Ex: AMA2701A
	Service Learning (GUR Subject ##)	C	3		
<b>YEAR 2 – SEMESTER 2</b>					
<a href="#">AF3313</a>	Business Finance	C	3	40:60	P: AF2108 or equivalent
<a href="#">AMA2631</a>	Applied Statistical Methods	C	3	40:60	Ex: AMA263 or AMA2631A
<a href="#">AMA273</a>	Advanced Mathematical Methods for Economic and Finance	C	3	40:60	P: AMA1007 or AMA2701 or AMA2701A or AMA140 or AMA150 or equivalent
	CAR Subject † (GUR Subject ##)	C	3		
	CAR Subject † (GUR Subject ##)	C	3		
	CAR Subject † (GUR Subject ##)	C	3		
<b>YEAR 3 – SEMESTER 1</b>					
<a href="#">AF4320</a>	Corporate Finance	C	3	40:60	P: AF3313
<a href="#">AMA304</a>	Financial Computations and Programming	C	3	50:50	Nil
<a href="#">AMA358</a>	Applied Probability Models for Investment	C	3	40:60	P: AMA1501 or AMA1502 or AMA2104 or AMA2634/AMA2634A or AMA269/AMA2691 or AMA237/AMA237A or AMA261 or equivalent E: AMA355
<a href="#">AMA3721</a>	Probability and Distributions for Risk Management	C	3	40:60	P: AMA1501 or AMA1502 or AMA2634/AMA2634A or AMA269/AMA2691 or AMA237/AMA237A or AMA261 or AMA2104 or equivalent Ex: AMA372
<a href="#">CBS3211P</a>	Professional Communication in Chinese for Applied Science	C	2	100:0	This subject will be offered to students in 3 <sup>rd</sup> year of their study, which implies that they have fulfilled the Language and Communication Requirement in their 1 <sup>st</sup> /2 <sup>nd</sup> year of study.

‡ LCR – Language and Communication Requirements (Please refer to P.10)

## GUR – General University Requirement

† CAR – Cluster Area Requirement (Please refer to P.9)

Code	Subject Title	C/E	Credit	Assessment CA:EXAM (%)	Pre-requisite (P)/ Co-requisite(Co)/ Exclusion (Ex)
<b>YEAR 3 – SEMESTER 2</b>					
<a href="#">AF3620</a>	Intermediate Microeconomics	C	3	50:50	P: AF1605 or equivalent
<a href="#">AMA364</a>	Statistical Inference	C	3	40:60	P: AMA2007 or AMA2112 or AMA2308 or AMA251 or AMA273 or AMA2882 <i>and</i> AMA1501 or AMA1502 or AMA2104 or AMA269/AMA2691 or AMA2634/AMA2634A or AMA237/AMA237A or AMA261 or AMA266 or equivalent
<a href="#">AMA382</a>	Operations Research Methods	C	3	40:60	P: AMA1007 or AMA1101 or AMA1102 or AMA1120 or AMA1130 or AMA140 or AMA150/AMA150A or AMA2007 or AMA2111 or AMA2701/AMA2701A or AMA2308 or AMA2318 or AMA2380 or AMA2512 or AMA290 or AMA2882 or equivalent
<a href="#">ELC3122</a>	English for Financial Management Professionals	C	2	100:0	P: LCR English subjects
	(One elective)	E			
<b>YEAR 4 – SEMESTER 1</b>					
<a href="#">AF4322</a>	Management of Financial Institutions	C	3	50:50	P: AF3313
<a href="#">AMA432</a>	Mathematical Methods for Investment	C	3	40:60	P: AMA1501 or AMA1502 or AMA2104 or AMA2634/AMA2634A or AMA269/AMA2691 <i>and</i> AMA2007 or AMA2111 or AMA2308 or AMA2380 or AMA2318 or AMA2511 or AMA2882 or AMA273 or AMA290 or equivalent
<a href="#">AMA465</a>	Forecasting and Applied Time Series Analysis	C	3	40:60	P: AMA263 or AMA2631/AMA2631A or AMA364 or equivalent
<a href="#">AMA484</a>	Decision Analysis	C	3	40:60	P: AMA1501 or AMA1502 or AMA2104 or AMA237/AMA237A or AMA261 or AMA2634/AMA2634A or AMA269/AMA2691 or equivalent
<a href="#">AMA488</a>	Simulation	C	3	40:60	P: AMA1501 or AMA1502 or AMA2104 or AMA2634/AMA2634A or AMA269/AMA2691 or AMA237/AMA237A or AMA261 or equivalent
<a href="#">AMA4951</a>	Capstone Project (one year subject)	C	6		

Code	Subject Title	C/E	Credit	Assessment CA:EXAM (%)	Pre-requisite (P)/ Co-requisite(Co)/ Exclusion (Ex)
<b>YEAR 4 – SEMESTER 2</b>					
<a href="#">AMA435</a>	Mathematics for Financial Derivatives	C	3	40:60	P: AMA273 or AMA2008 or AMA2112 <i>and</i> AMA358
<a href="#">AMA481</a>	Econometrics	C	3	40:60	P: AMA263 or AMA2631 or AMA2631A or equivalent
<a href="#">AMA4951</a>	Capstone Project (one year subject)	C	6		
	(One elective)	E			
	(One elective)	E			

<b>ELECTIVES</b>					
<a href="#">AF3317</a>	Risk Management	E	3	50:50	P: AMA263 or AMA2631 or AMA2631A or AMA2101 or equivalent <i>and</i> AF3313
<a href="#">AF4317</a>	Derivative Securities	E	3	50:50	P: AF3313 or AF3323
<a href="#">AF4323</a>	International Finance	E	3	45:55	P: AF3313 Ex: AF4334
<a href="#">AMA264</a>	Survey Sampling	E	3	40:60	Nil
<a href="#">AMA362</a>	Further Statistical Methods	E	3	40:60	P: AMA2634 or AMA2634A or AMA237/AMA237A or AMA261 or AMA269/AMA2691 or equivalent
<a href="#">AMA463</a>	Loss Models	E	3	40:60	P: AMA364
<a href="#">AMA466</a>	Multivariate Statistical Methods	E	3	40:60	P: AMA263 or AMA2631 or AMA2631A or equivalent
<a href="#">AMA470</a>	Credibility Theory	E	3	40:60	P: AMA364

% Students who have not attained Level 3 or above in Biology as a single Science subject or a component of the Combined Science (sub-score) in HKDSE are required to take Introductory Life Science (ABCT1101). Students with Level 3 or above in Biology as a single Science subject or a component of the Combined Science (sub-score) in HKDSE are required to take General Biology (ABCT1102).

& Students who have not attained Level 3 or above in Chemistry as a single Science subject or a component of the Combined Science (sub-score) in HKDSE are required to take Introduction to Chemistry (ABCT1700). Students with Level 3 or above in Chemistry as a single Science subject or a component of the Combined Science (sub-score) in HKDSE are required to take General Chemistry I (ABCT1741).

\* Students who have not achieved Level 2 or above in Extended Modules of Mathematics (M1 or M2) in HKDSE are required to complete AMA1100 before progressing to take AMA1006 and AMA1007.

\*\*Students who have not attained Level 3 or above in Physics as a single Science subject or a component of the Combined Science (sub-score) in HKDSE are required to take Introduction to Physics (AP10001). Students with Level 3 or above in Physics as a single Science subject or a component of the Combined Science (sub-score) in HKDSE are required to take University Physics I (AP10008).

#Subject to the offering of a replacement subject with the same syllabus.

*Note:* Equivalent subjects may be accepted in considering Pre-requisite/Co-requisite requirement for all the above subjects.

## Common Science Subjects for Applied Sciences programmes (Year 1)

Broad Discipline common subjects			Credit
Category	A	B	
	Introduction to Physics [ <a href="#">AP10001</a> ]	<i>or</i> University Physics I [ <a href="#">AP10008</a> ]	3
	Introduction to Chemistry [ <a href="#">ABCT1700</a> ]	<i>or</i> General Chemistry I [ <a href="#">ABCT1741</a> ]	3
	Introductory Life Science [ <a href="#">ABCT1101</a> ]	<i>or</i> General Biology [ <a href="#">ABCT1102</a> ]	3
	Basic Statistics [ <a href="#">AMA1006</a> ]		2
	Calculus & Linear Algebra [ <a href="#">AMA1007</a> ]		3
Underpinning subject			Credit
	Basic Mathematics [ <a href="#">AMA1100</a> ]		2

1. All applied science & mathematics students are required to complete one broad discipline common subject each in Physics, Chemistry, Biology, Calculus & Linear Algebra and Basic Statistics.
2. The science subjects under Category A are designed for students who have not attained Level 3 or above in Physics, Chemistry and/or Biology as a single Science subject or a component of the Combined Science (sub-score) in HKDSE.
3. Students who have attained Level 3 or above in Physics, Chemistry and/or Biology, as a single Science subject or a component of the Combined Science (sub-score) are required to take the relevant subjects under Category B.
4. Students must retake a compulsory subject which they have failed. Those who fail Category B subjects and pursue for programmes which accept Category A subjects could take the relevant Category A subject as replacement. Academic Advisors will provide academic counseling to students on the appropriate subject to take/retake.
5. Students who have not achieved Level 2 or above in Extended Modules of Mathematics (M1 or M2) in HKDSE are required to complete AMA1100 before progressing to take AMA1006 and AMA1007.
6. ABCT, AMA and AP will provide academic counseling to students upon their admission and before subject registration.
7. Broad Discipline students who take subject(s) under Category A may need to take relevant subject(s) under Category B according to the requirements of individual degrees in applied science and in mathematics.