PROGRAMME REQUIREMENTS

Students are required to complete courses totalling not fewer than 300 credits comprising:

- 96 credits in one of the approved Science Majors, including 6 to 12 credits in Science capstone experience;
- 120 credits in the Professional Core (Science Education), including 24 credits in capstone experience;
- 12 credits in language enhancement courses, including a non-credit bearing Academic Communication in English course, 6 credits in English in the Discipline and 6 credits in Chinese language course;
- 24 credits in the Common Core Curriculum, including not more than 6 credits from the same Area of Inquiry;
- 6 credits in artificial intelligence literacy;
- 42 credits in electives; and
- a non-credit bearing course in national education and national security education, and any other non-credit bearing courses as may be required from time to time.

PROGRAMME OVERVIEW

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
Science Majors *(note 1)* (96 credits) 1. Biochemistry 2. Biological Sciences 3. Chemistry 4. Ecology & Biodiversity 5. Food & Nutritional Science 6. Molecular Biology & Biotechnology 7. Physics	Science Foundation Courses *(note 2)* (12 credits)	Students shall *normally* take 30 credits in one of the approved Science Majors in Year 1, comprising the following two foundation courses SCNC1111 Scientific Method & Reasoning (6 credits) AND SCNC1112 Fundamentals of Modern Science (6 credits)	Students shall *normally* take 24 credits in one of the approved Science Majors in Year 2	Students shall *normally* take 24 credits in one of the approved Science Majors in Year 3	Students shall *normally* take 12 credits in one of the approved Science Majors in Year 4	Students shall *normally* take 6 credits in one of the approved Science Majors in Year 5
	Introductory Level Disciplinary Courses *(note 3)* (course code starting with 1 or 2) (30-48 credits)					
	Advanced Level Disciplinary Courses *(note 4)* (course code starting with 3, 4 or above) (30-48 credits)					
	Science Capstone (6-12 credits)				Depending on the Science Major, students shall take 6 - 12 credits from directed studies (6 credits), internship (6 credits) or project (12 credits)	

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
Professional Core (Science Education) (120 credits)	Integrated Courses (24 credits)	BBED1101 Becoming a Teaching Professional: Education in a Globalized Society 1 (6 credits) BBED1102 Becoming a Teaching Professional: Education in a Globalized Society 2 (6 credits)	BBED2101 Becoming a Teaching Professional: Understanding Learning and Teaching 1 (6 credits) BBED2102 Becoming a Teaching Professional: Understanding Learning and Teaching 2 (6 credits)			
	Pedagogy and Pedagogical Content Knowledge Courses (42 credits) *(note 5)*			BBED3261 Science, Technology, Engineering, Arts and Mathematics (STEAM) Education (6 credits) BBED3281 Teaching and Learning Primary Science (6 credits)		BBED5263 Nature of Science and Socioscientific Issues (6 credits) BBED5264 Language and Science Learning (6 credits) BBED5363 Becoming a Scholarly Teacher (6 credits)
				BBED3282 Teaching and Learning Junior Secondary Science (6 credits)		

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
					BBED4281 Teaching and Learning Senior Secondary Science – Biology (6 credits) OR BBED4282 Teaching and Learning Senior Secondary Science – Chemistry (6 credits) OR BBED4283 Teaching and Learning Senior Secondary Science – Physics (6 credits)	
	Educational Studies Core Courses (18 credits)			BBED3002 Learning Support 1 - Catering for Diverse Learning Needs (6 credits)	BBED4001 Social and Philosophical Foundations of Education (6 credits) BBED4003 Learning Support 2 - Understanding and Guiding Whole-Person Development (6 credits)	
	Educational Studies Elective Courses (6 credits)					BBED5021 Professional Ethics in Teaching (6 credits) OR BBED5025 Policy, Improvement, and Leadership in Schools (6 credits) OR

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
						BBED5026 Diversity, Culture, and Justice in Education (6 credits) OR BBED5027 Education for Sustainable Development: Schools as Community Centers (6 credits)
	Professional Practicum (30 credits)	Community-based Professional Practicum (CPP) to be completed before the start of Year 4 (6 credits)			BBED4463 Professional Practicum I – Science (12 credits) (10 weeks)	BBED5464 Professional Practicum II – Science (12 credits) (10 weeks)
Language Enhancement Courses (12 credits)		CAES1001 Academic Communication in English *(note 6)* (non-credit bearing)	CAES9423 Academic English for Education Students (6 credits)		CEDU9007 Practical Chinese for BEd&BSc Students *(note 7)* (6 credits)	
Common Core Curriculum (CCC) (24 credits)		12 credits CCC from 2 different Areas of Inquiry	12 credits CCC from 2 different Areas of Inquiry			
Artificial Intelligence Literacy (6 credits)		Artificial Intelligence Literacy (3 credits)	Artificial Intelligence Literacy (3 credits)			
Electives (42 credits)		Elective (6 credits)	Elective (6 credits)	Electives (12 credits)	Elective (6 credits)	Elective (12 credits)

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
Non-credit bearing (0 credit)		A non-credit bearing course in national education and national security education (UGRE1001), and any other non-credit bearing courses as may be required by the University from time to time				
Total: 300 credits		*63 (note8)*	*63 (note 8)*	*66 (note 8)*	*54 (note 8)*	*54 (note 8)*

Notes:
1. The curriculum of the Science Majors can be viewed at https://webapp.science.hku.hk/sr4/servlet/enquiry, please select only those courses that could be used to fulfill the curriculum of your intended major.
2. Science Foundation Courses should be taken in Year 1.
3. Introductory Level Disciplinary Courses shall *normally* be taken in Years 1 and 2. Students are expected to complete all the Disciplinary Core (Levels 1 & 2) Courses in their intended major before Year 3.
4. Advanced Level Disciplinary Courses shall *normally* be taken in Years 2 to 5. Students are expected to complete all the Disciplinary Core (Level 3) Courses before Year 5.
5. Students may take the courses of other disciplines as electives during Years 3-5.
6. Most first-year students admitted to the BEd&BSc curriculum are required to take the CAES1001 Academic Communication in English course. However, students who have achieved Level 5 or above in English Language in the Hong Kong Diploma of Secondary Education Examination, or equivalent, are exempted from this requirement.
7. For Mainland, international or exchange students, please refer to BEd&BSc syllabuses at https://www4.hku.hk/pubunit/drcd/ for details.
8. Students can take 54-66 credits in a year and shall be required to take not fewer than 24 credits nor more than 36 credits in any one semester unless otherwise permitted or required by the Board of Studies. Students may, of their own volition, take additional credits not exceeding 6 credits in each semester, and/or further credits during the summer semester, accumulating up to a maximum of 72 credits in one academic year.