

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;
- 18 credits in language enhancement courses, including 6 credits in Core University English, 6 credits in English in the Discipline and 6 credits in Chinese language course;
- 24 credits of courses in the Common Core Curriculum, including one course from each Areas of Inquiry;
- 42 credits in electives

PROGRAMME OVERVIEW (Science Major)

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5	
Science Majors <i>(note 1)</i> (96 credits) <ol style="list-style-type: none"> 1. Biochemistry 2. Biological Sciences 3. Chemistry 4. Ecology & Biodiversity 5. Food & Nutritional Science 6. Molecular Biology & Biotechnology 7. Physics 	Science Foundation Courses <i>(note 2)</i> (12 credits)	Students shall <i>normally</i> take 30 credits in one of the approved Science Majors in Year 1, comprising the following two foundation courses	Students shall <i>normally</i> take 24 credits in one of the approved Science Majors in Year 2	Students shall <i>normally</i> take 24 credits in one of the approved Science Majors in Year 3	Students shall <i>normally</i> take 6-12 credits in one of the approved Science Majors in Year 4	Students shall <i>normally</i> take 6-12 credits in one of the approved Science Majors in Year 5	
	Introductory Level Disciplinary Courses <i>(note 3)</i> (course code starting with 1 or 2) (30 / 36 credits)						SCNC1111 Scientific Method & Reasoning (6 credits)
	Advanced Level Disciplinary Courses <i>(note 4)</i> (course code starting with 3, 4 or above) (54 / 48 credits)						AND SCNC1112 Fundamentals of Modern Science (6 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 I (6 credits) BBED1102 Becoming a Teaching Professional: Education in a Globalized Society II (6 credits)	BBED2101 Becoming a Teaching Professional: Understanding Learning and Teaching I (6 credits) BBED2102 Becoming a Teaching Professional: Understanding Learning and Teaching II (6 credits)			
	Pedagogy and Pedagogical Content Knowledge Courses (42 credits) Among the 42 credits, 18 credits must be obtained from the courses of a major discipline, i.e. Physics, Chemistry or Biology during years 3 to 5. These 3 discipline-related courses (18 credits) are offered twice in a three-year cycle. Students are strongly encouraged to take all the 3 courses in years 3 and 4. <i>(note 5)</i>			BBED3261 Teaching and Learning of Science I (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)

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
				<p><u>Biology Discipline (6 credits each):</u> BBED3271 Teaching and Learning Science II – Biology BBED3371 Practical Work and Scientific Inquiry – Biology BBED3374 Curriculum and Assessment – Biology</p> <p>OR</p> <p><u>Chemistry Discipline (6 credits each):</u> BBED3272 Teaching and Learning Science II – Chemistry BBED3372 Practical Work and Scientific Inquiry – Chemistry BBED3375 Curriculum and Assessment – Chemistry</p> <p>OR</p> <p><u>Physics Discipline (6 credits each):</u> BBED3273 Teaching and Learning Science II – Physics BBED3373 Practical Work and Scientific Inquiry – Physics BBED3376 Curriculum and Assessment – Physics</p>		
	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)	

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
	Educational Studies Elective Courses (6 credits)					BBED5021 Professional Ethics in Teaching (6 credits) OR BBED5025 Policy, Improvement, and Leadership in Schools (6 credits) OR 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)

Degree Components	Credit-point Allocations to Sub-components	Year 1	Year 2	Year 3	Year 4	Year 5
Language Enhancement Courses (18 credits)		CAES1000 Core University English <i>(note 6)</i> (6 credits)	CAES9423 Academic English for Education Students (6 credits)		CEDU9007 Practical Chinese for BEd&BSc Students <i>(note 7)</i> (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			
Electives (42 credits)		Elective (6 credits)	Elective (6 credits)	Electives (12 credits)	Elective (6 credits)	Elective (12 credits)
Total: 300 credits		66 <i>(note8)</i>	60 <i>(note 8)</i>	66 <i>(note 8)</i>	54 <i>(note 8)</i>	54 <i>(note 8)</i>

Notes:

- 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.
- Science Foundation Courses should be taken in Year 1.
- 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.
- 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.
- Students may take the courses of other disciplines as electives during Years 3-5.
- Most first-year students admitted to the BEd&BSc curriculum are required to take the CAES1000 Core University English course (CUE). However, students are exempted from the CUE if they are: (i) students with Level 5 or above on the HKDSE English Language Paper, (ii) students being a holder of Bachelor's degree from an English-medium university, (iii) students having achieved Grade A or above in English Language GCE Advanced Level (AL)/ Advanced Subsidiary Level (ASL); (iv) students having achieved an overall IELTS score of no less than a 7 and no less than a 6.5 on the Reading, Speaking, Listening and Writing Tests, (v) students having achieved an overall TOEFL Internet Based Test score of no less than 94 and no less than a 24 on the writing, a 20 on the speaking, a 20 on the listening, AND a 19 on the reading sections, (vi) students having achieved in International Baccalaureate (IB) Grade 4 or above in English A1/ English Language A/ English A: Literature/ English A: Language and Literature (HL); or Grade 5 or above in English B/ English Language B (HL); or Grade 5 or above in English A1/ English Language A/ English A: Literature/ English A: Language and Literature (SL), (vii) students who have achieved a NEW Scholastic Aptitude Test (SAT) score of 35 or above on both the Writing & Language Test and Reading Test (from 2016), (viii) students who have achieved Grade 4 or above on the Advanced Placement English Language / English Language and Composition Test / English Literature and Composition Test (ix) students who have achieved Grade B or above in H1 General Paper at the Singapore GCE A-level, (x) students who have achieved Grade A or better in English language at Malaysia SPM examination, (xi) students who have achieved Grade A2 or better in Malaysia UEC-Senior English Language, (xii) students who have attained merit (3 points) or above in each set of credits in New Zealand NCEA Literacy (10 credits made up of 5 credits in reading and 5 credits in writing), (xiii) students who have achieved a score of 95% or better in English at All India Senior School Certificate Examination / Higher School Certificate, (xiv) students who have achieved a final score of 90% or better in English at Grade 12 Canadian high school curriculum, (xv) students who have

achieved Grade B or better in English Language at Sri Lanka Ordinary examination, (xvi) students who have achieved a score of 90 or better in English in the Russian Unified State Exam (Единый государственный экзамен, ЕГЭ, Yediniy gosudarstvenniy ekzamen, EGE) and (xvii) students tested by CAES to be of a native English speaker standard. Students who are exempted from the CUE should take a 6-credit elective in lieu.

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.