Faculty of Liberal Arts and Social Sciences

Home   A5B057/A5B058/A5B062/A5B078/A5B079/A5B084/A5B085 (2016-2021)

Programme Outline

THE EDUCATION UNIVERSITY OF HONG KONG

FACULTY OF LIBERAL ARTS AND SOCIAL SCIENCES

PROGRAMME OUTLINE

1. **Programme Title:**

   Bachelor of Education (Honours) (Secondary) - Information and Communication Technology
   Bachelor of Education (Honours) (Primary) - General Studies and Mathematics
   Bachelor of Education (Honours) (Physical Education)
   Bachelor of Education (Honours) (Secondary) in Mathematics
   Bachelor of Education (Honours) (Business, Accounting and Financial Studies)
   Bachelor of Education (Honours) (Geography)
   Bachelor of Education (Honours) (Science)

2. **Programme Code:**

   A5B057: Bachelor of Education (Honours) (Secondary) - Information and Communication Technology
   A5B058: Bachelor of Education (Honours) (Primary) - General Studies and Mathematics
   A5B062: Bachelor of Education (Honours) (Physical Education)
   A5B078: Bachelor of Education (Honours) (Secondary) in Mathematics
   A5B079: Bachelor of Education (Honours) (Business, Accounting and Financial Studies)
   A5B084: Bachelor of Education (Honours) (Geography)
   A5B085: Bachelor of Education (Honours) (Science)

3. **Programme Aims and Objectives:**

   The programme seeks to prepare qualified, competent, professional primary / secondary school teachers capable of satisfying the educational needs of learners with different abilities in a community which values multiple aspects of intelligence. Graduates of the programme will have attained academic excellence and professional competence, and will possess a solid command of subject knowledge and skills in their chosen disciplines together with a firm and thorough grasp of the interrelationship between theory and practice. They will recognise the importance of a life-long dedication to teaching and learning, and a respect for young people. They will be creative, responsible, and caring individuals who have an understanding of culture, technology and society, and a commitment to moral values.

   Upon successful completion of the programme, graduates are expected to:

   1. Demonstrate command and understanding of the discipline knowledge, and be able to apply this to teaching students with diversified ability and background, and in different school settings;
   2. Exhibit pedagogical competence and professional knowledge both in theories and practice;
   3. Utilize different generic skills (e.g. problem solving, critical thinking and creativity) in teaching and learning, and life-wide and life-long professional development;
   4. Exhibit proficiency in biliteracy and trilingualism in Chinese and English that facilitates effective communication in school and social context;
   5. Critically and creatively analyze local, national, regional and global issues of social concerns; and
   6. Display commitments to teaching with professional ethical attitude, and a global and multi-cultural perspective.

   The intended learning outcomes for individual disciplines are as follow:

   - Business, Accounting and Financial Studies

   1. Exhibit a solid understanding of business concepts and theories, and apply the knowledge to solve business problems.
   2. Demonstrate integration of business concepts, theories and approaches in business decision-making.
   3. Apply critical and creative thinking to analyze and evaluate environmental, competitive and organizational issues.
   4. Display competent teaching and professionalism in achieving quality business education in schools.
   5. Develop global perspectives to examine the contemporary business environment and atmosphere.

   - General Studies

   1. Demonstrate a solid understanding and command of the core concepts and methods of enquiry in social sciences, science and technology.
   2. Show a broad understanding of the diverse social and cultural contexts in the local, national and global communities.
   3. Demonstrate a thorough understanding of interdisciplinary concepts and approaches in curriculum integration and display competence in interdisciplinary studies and thinking.
   4. Apply critical and creative thinking and problem solving abilities to deal with social, science, environmental and health-related issues.
   5. Display positive attitude towards the acceptance of diversity and multiplicity.
   6. Demonstrate the pedagogical literacy and competency required for the development and implementation of curriculum.

- Geography

1. Demonstrate a solid understanding and command of geographical concepts and theories and apply the knowledge to solve geographical problems in the local, regional and global contexts with complex human-physical interface.
2. Develop learning capability to be a competent and effective learner and teacher in a dynamic and an ever-changing society.
3. Apply critical thinking to analyze the geographical and environmental issues that address the relationship among land, nature and people in the physical and human environments.
4. Demonstrate the pedagogical literacy and competency required for the development and implementation of curriculum in secondary schools.
5. Develop essential abilities to plan, execute, report on field work and geographical research with the skills of data analysis, Geographic Information System, remote sensing and field studies.

- Information and Communication Technology

1. Demonstrate understanding of basic concepts in major areas of ICT and use a range of applications software to support information processing and problem-solving.
2. Demonstrate an understanding of methods for analysing problems, and planning and implementing solutions using ICT.
3. Realise the social, ethical and legal issues pertaining to the use of ICT and appreciate how information literacy and the sharing of knowledge using ICT to influence decision-making and shape our society.
4. Learn to connect ICT knowledge to the teaching of ICT and develop approaches to help students to learn ICT in exciting and effective ways.

- Mathematics (Primary)

1. Demonstrate understanding of mathematical concepts and competence in explaining them clearly to school pupils.
2. Plan and implement appropriate learning, teaching and assessment strategies to cater for the pupils' individual differences in learning mathematics.
3. Adopt appropriate strategies to arouse pupils' interest in learning mathematics.
4. Enrich and apply critical and logical thinking skills in teaching and real-life settings.
5. Use information technologies and appropriate software to enhance learning and teaching of mathematics.

- Mathematics (Secondary)

1. Demonstrate the applications of fundamental concepts, theories and computational skills in mathematics.
2. Apply learning theories and teaching skills for catering individuals' learning diversities and special education needs in ordinary classrooms.
3. Design and execute IT-based learning packages for all topics in secondary mathematics.
4. Use information technology to resolve Mathematics related learning disabilities.
5. Recognize and appreciate the connection between mathematics and the world around us.

- Physical Education

1. Demonstrate academic competence in disciplinary knowledge of humanities and science of human movement appropriate for teaching of PE in Hong Kong secondary and primary schools.
2. Apply theories into practice innovatively to serve as professional PE teachers facilitating pupils' informed and active learning in Hong Kong secondary and primary schools.
3. Value and understand critical sports-related values and attitudes.
4. Demonstrate critical understanding of curricular and pedagogical knowledge and skills appropriate for teaching of PE in Hong Kong secondary and primary schools.
5. Master and value a variety of physical activities as well as participate regularly in contributing to healthy and active lifestyles.
6. Engage in on-going enrichment in professional and intellectual development concerning PE.

- Science

1. Demonstrate command and understanding of the subject matter and pedagogical content knowledge of two different science disciplines.
2. Apply science knowledge and skills together with appropriate pedagogies to teaching students with diversified abilities and backgrounds, and in different school settings.
3. Exhibit professional competence and attitudes in teaching at least two senior secondary science subjects as well as the junior secondary science subject.
4. Utilise different generic skills (e.g. problem solving, critical thinking, and creativity) in teaching and learning, and life-wide and lifelong professional development.
5. Exhibit proficiency in biliteracy and trilingualism in Chinese and English that facilitates effective communication in school and social contexts.
6. Critically and creatively analyse socio-scientific, technological, and environmental issues and concerns in the local, national, and global contexts.
7. Display commitment to teaching with a professional ethical attitude, and a global and multi-cultural perspective.

4. **Programme Duration:**

   5 years

5. **Mode of Study:**

   Full-time

6. **Venue:**

   Tai Po Campus

7. **Academic Year:**

   2016-2021

8. **Medium of Instruction:**

   Chinese and English

9. **Entry Requirements:**

   General Entrance Requirements

   Four core subjects and one elective subject with:

   Level 3 or above   :   English Language and Chinese Language

   Level 2 or above   :   Mathematics (Compulsory part), Liberal Studies and **one** elective subject

10. **Course Assessments and Grades:**

    a. Grading System

    Students' performance in each course is expressed in terms of the following system:

Course Grade	Interpretation	Grade Point Equivalent (GPE)
A+*		4.33
A	Distinction	4.00
A-		3.67
B+		3.33
B	Good	3.00
B-		2.67
C+	Satisfactory	2.33
C		2.00
C-	Below Satisfactory	1.67
D**		1.00
F	Fail	0.00

    * Grade A+ is only given for outstanding performance in the course.

    ** Grade D is the minimum level required for course progression.

Operational Grade	Interpretation
DN	Distinction
CR	Credit
PS	Pass
FL	Fail
IP	In Progress
YC	Complete
YI	Incomplete
W	Withdrawn
X	Exempted

    b. Students' performance in a programme within a prescribed period of time, excluding courses without grade point equivalent, is described in a Programme GPA (Grade Point Average), which is calculated by the sum of the product of GPE (Grade Point Equivalent) earned for each course attempted (including failed courses) and its credit points within a programme, divided by the total number of credits attempted within a programme:

    $$\text{Programme GPA} = \frac{\text{Sum of (GPE x Course CP) within a programme}}{\text{Total no. of CPs within a programme}}$$

11. **Award:**

    A5B057: Bachelor of Education (Honours) (Secondary)

    A5B058: Bachelor of Education (Honours) (Primary)

    A5B062: Bachelor of Education (Honours) (Physical Education)

    A5B078: Bachelor of Education (Honours) (Secondary) in Mathematics

    A5B079: Bachelor of Education (Honours) (Business, Accounting and Financial Studies)

    A5B084: Bachelor of Education (Honours) (Geography)

    A5B085: Bachelor of Education (Honours) (Science)

12. **Associate Dean (Undergraduate Studies & Student Learning):**

    Professor Tsang Po Keung, Eric (SES)

13. **Programme Leader:**

    A5B062: Dr Lau Leung Kwok, Prudence (CCA)

      Dr Chow Sin Yin, Alice (SSC), Acting Progamme Leader from 1 September to 13 December 2020.

    A5B057/A5B058/A5B078/A5B079/A5B084/A5B085: Dr Chow Sin Yin, Alice (SSC)

14. **Subject Coordinator:**

    A5B057: Dr Lam Wai Man, Winnie (MIT)

    A5B058: Dr Lee Hoi Man, Sarah (SES) - GS

           Dr Cheng Hiu Fai, Kell (MIT) - MA

A5B062: Dr Chow Chi Ching, Gary (HPE)
A5B078: Dr Poon Kin Keung, Eric (MIT)
A5B079: Dr Law Kim Fai, Eric (SSC)
A5B084: Dr Pei Qing (SSC)
A5B085: Dr Cheang Chi Chiu, Frank (SES)

15. **Field Experience Coordinator:**
A5B057: Mr Chiu Hin Leung, Mike (MIT)
A5B058: Dr Deng Wenjing (SES) - GS
       Dr Wong Mei Yee, May (SSC) - GS
       Dr Yuen Man Wai, Steven (MIT) - MA
A5B062: Mr Kam Wai Keung, Kevin (HPE)
A5B078: Dr Yuen Man Wai, Steven (MIT)
A5B079: Dr Cheng Wan Suen, Vincent (SSC)
A5B084: Dr Wong Kwan Lam, Gwendolyn (SSC)
A5B085: Dr Chan Chi Keung (SES)

16. **Total No. of Credit Points (CPs) required by the Programme:**
Total: 156 cps (including 15 cps of Field Experience)

17. **Programme Structure:**

For A5B057, A5B058, A5B062, A5B078, A5B079 only:

Domain	CPs
Major	**39**
Business, Accounting and Financial Studies / General Studies / Information and Communication Technology / Mathematics (Primary)/(Secondary) / Physical Education	
Education Studies	**30**
(a) Generic	(24)
(b) Pedagogy for Major	(6)
General Education	**18**
(a) Foundation Course	(3)
(b) Breadth Course	(12)
(c) Consolidation Course	(3)
Honours Project	**6**
Electives	**36**
(a) Free Electives; or	(36)
(b) Second Major and Free Electives; or	(30+6)
(c) Minor and Free Electives; or	(15+21)
(d) 2 Minors and Free Electives	(30+6)
Field Experience	**15**
Language Enhancement	**9**
Co-curricular and Service Learning	**3**
Total :	**156**

For A5B084 only:

Domain	CPs
Major	**39**
Geography	
Education Studies	**30**
(a) Generic	(24)
(b) Pedagogy for Major	(6)
General Education	**18**
(a) Foundation Course	(3)
(b) Breadth Course	(12)
(c) Consolidation Course	(3)
Honours Project	**6**
Minor	**15**
Liberal Studies	
Electives	**21**
(a) Free Electives; or	(21)
(b) Second Major*; or	(30)
(c) Second Minor and Free Electives	(15+6)

Field Experience	**15**
Language Enhancement	**9**
Co-curricular and Service Learning	**3**
Total :	**156**

* BEd(GEOG) Students opt for a Second Major will need to take at least additional 9 cps to fulfill the required cps for Second Major.

For A5B085 only:

Domain	CPs
Major	**69**
Science	
(a) Foundation Courses	(15)
(b) Advanced Courses (Two selected majors from Biology, Chemistry and Physics)	(54)
Education Studies	**30**
(a) Generic	(24)
(b) Pedagogy for Major	(6)
General Education	**18**
(a) Foundation Course	(3)
(b) Breadth Course	(12)
(c) Consolidation Course	(3)
Honours Project	**6**
Electives	**6**
(a) Free Electives	(6)
Field Experience	**15**
Language Enhancement	**9**
Co-curricular and Service Learning	**3**
Total :	**156**

List of Courses for Bachelor of Education (Honours) (Secondary) / (Primary) / (Physical Education) / (Business, Accounting and Financial Studies) / (Science) / (Geography) (Five-year Full-time) (2016-2021)
Major / **Education Studies** / **General Education** / **Honours Project** / **Electives** / **Field Experience** / **Language Enhancement** / **Co-curricular and Service Learning**

I. Major and Minor
The Minor subjects listed in this section are offered by the 5-year BEds in FLASS only. Students can visit The Portal (under "Second Major/Minors") for the full offering list of Minor subjects or visit the website of "Undergraduate Curriculum": https://www.eduhk.hk/re/modules/content/item.php?categoryid=42&itemid=22.

The course offering sequence of the Minor subjects listed in this section is a suggestion only. Students can take a course for Minor subjects in any year/semester when it is offered.

Business, Accounting and Financial Studies/ Business Career Development/ Chinese History/ Creativity/ General Studies/ Geography/ Global Governance Studies/ Information and Communication Technology/ Liberal Studies/ Mathematics (Primary)/ Mathematics (Secondary)/ Music/ National and Moral Education/ Physical Education/ Resources Management/ Science/ Visual Arts

Course Code	Course Title	Credit Points	Department	Status	Year(s)-Semester(s)
Business, Accounting and Financial Studies					
BUS1011	Introduction to Accounting	3	SSC	Major Core*	1 - 1
BUS2012	Marketing	3	SSC	Major Core*	1 - 2
BUS2013	Financial Accounting	3	SSC	Major Core*	2 - 1
BUS3014	Human Resources Management and Development	3	SSC	Major Core*	2 - 1
BUS3015	Management and Cost Accounting	3	SSC	Major Core*	2 - 2
BUS4009	Technology in Business and Human Advancement	3	SSC	Major Core*	4 - 1
BUS4016	Financial Management	3	SSC	Major Core*	3 - 1
BUS4017	Financial Statement Analysis	3	SSC	Major Core*	4 - 2

Code	Title	Credit	Dept	Category	Sem
IBS1028	Principles of Management	3	SSC	Major Core*	1 - 1
IBS1126	Personal Financial Planning	3	SSC	Major Core*	1 - 2
IBS3147	Legal and Ethical Issues in Business	3	SSC	Major Core*	2 - 2
IBS3151	Entrepreneurship and Small Business Management	3	SSC	Major Core*	4 - 1
SSC4215	Hong Kong and the Global Economy	3	SSC	Major Core*	4 - 2
BUS2019	Teaching and Learning of Business and Management Studies	3	SSC	ES-Pedagogy for Major	3 - 1
BUS3020	Teaching and Learning of Accounting and Financial Studies	3	SSC	ES-Pedagogy for Major	4 - 1

* These are courses to be included for calculation of Major Subject GPA.

Business Career Development

Code	Title	Credit	Dept	Category	Sem
BUS1021	Business Communication and Cultural Diversity at Workplace	3	SSC	Minor Electives^	All - 2
BUS2012	Marketing	3	SSC	Minor Electives^	All - 2
BUS3014	Human Resources Management and Development [will not be offered from 2020/21]	3	SSC	Minor Electives#	All - 1
BUS4045	Financial Literacy Education for All Aged Groups	3	SSC	Minor Electives#	All - 1/2
IBS1124	Business Environment in Hong Kong	3	SSC	Minor Electives^	All - 1
IBS3147	Legal and Ethical Issues in Business	3	SSC	Minor Electives#	All - 2
IBS3151	Entrepreneurship and Small Business Management	3	SSC	Minor Electives#	All - 1
SSC3238	Issues in Corporate Governance and Responsibility	3	SSC	Minor Electives#	All - 1/2
SSC4215	Hong Kong and the Global Economy	3	SSC	Minor Electives#	All - 2

Students who take Business Career Development as Minor are required to take any three out of the six courses.
^ Students who take Business Career Development as Minor are required to take any two out of the three courses.

Chinese History

Code	Title	Credit	Dept	Category	Sem
HIS1001	Study of Pre-modern Chinese History	3	SSC	Minor Core	1 - 2
HIS3002	Chinese History: Curriculum and Methods	3	SSC	Minor Core	4 - 1
SSC2038	History of Modern China	3	SSC	Minor Core	2 - 2
SSC3058	Study of Local History	3	SSC	Minor Core	3 - 2
SSC3132	History of Chinese Culture	3	SSC	Minor Core	3 - 1

Creativity

Code	Title	Credit	Dept	Category	Sem
ART2207	Nurturing Creativity through Visual Arts Activities	3	CCA	Minor Electives#	2/3 - 1
CAC1006	Contextual Studies of Creative Arts	3	CCA	Minor Electives#	1/2 - 2
INS1043	Creativity and Human Development	3	CCA & SES	Minor Electives#	1 - 2
INS3034	Creativity in Teaching	3	CCA & SES	Minor Electives#	4/5 - 1
INS3035	Creativity in Action	3	CCA & SES	Minor Electives#	4/5 - 2
MUS2170	Creativity in Music	3	CCA	Minor Electives#	3/4 - 1
SCG2017	Nurturing Creativity through Science Activities	3	SES	Minor Electives#	2/3 - 2
SCG3020	Creativity in Scientific and Technological Invention	3	SES	Minor Electives#	3/4 - 2
SES3036	Creativity for Environmental Sustainability	3	SES	Minor Electives#	3/4 - 1

Students who take Creativity as Minor are required to choose any five out of the nine courses.

General Studies

Code	Title	Credit	Dept	Category	Sem
EVS2002	Environmental Studies	3	SES	Major Core*	2 - 2
HCS1009	Healthy Living	3	SES	Major Core*	1 - 2
INS3020	Living in the Information Age	3	SES	Major Core*	4 - 2
INS4010	Trends and Development in General Studies	3	SES	Major Core*	4 - 2
INS4011	Interdisciplinary Concepts and Thinking	3	SES	Major Core*	4 - 1
SCI1002	Children's Science Learning	3	SES	Major Core*	1 - 2
SCI1561	Science in the Contemporary World	3	SES	Major Electives^*	1 - 1
SCI2062	Natural World	3	SES	Major Core*	2 - 1
SCI3033	Science, Technology and Society	3	SES	Major Core*	3 - 2

Code	Title	Credits	Dept	Category	Year - Sem
SSC1011	Chinese Culture and Identity	3	SSC	Major Electives^*	1 - 2
SSC2025	The Study of Society: An Introduction	3	SSC	Major Core*	1 - 1
SSC2044	Hong Kong Studies	3	SSC	Major Core*	2 - 1
SSC3054	Perspectives on Citizenship	3	SSC	Major Core*	2 - 2
SSC3137	Globalization: Trends and Development	3	SSC	Major Core*	3 - 1
INS3019	Teaching General Studies	3	SES	ES-Pedagogy for Major	3 - 1
INS4012	Models and Approaches in Teaching General Studies	3	SES	ES-Pedagogy for Major	4 - 1

Minor

Code	Title	Credits	Dept	Category	Year - Sem
EVS2002 / EVS3006	Environmental Studies	3	SES	Minor Electives+	2 - 2
HCS1009 / HCS3064	Healthy Living	3	SES	Minor Electives+	1 - 2
INS3019	Teaching General Studies	3	SES	Minor Core	3 - 1
SCI2062	Natural World	3	SES	Minor Electives+	1 - 2
SCI3033	Science, Technology and Society	3	SES	Minor Electives+	3 - 1
SSC2025	The Study of Society: An Introduction	3	SSC	Minor Electives#	1 - 1
SSC2044 / SSC3276	Hong Kong Studies	3	SSC	Minor Electives#	2 - 1
SSC3137	Globalization: Trends & Development	3	SSC	Minor Core	3 - 1

^ Students who take General Studies as Major are required to take either one.

Students who take General Studies as Minor are required to take one of the two courses.

+ Students who take General Studies as Minor are required to take two of the four courses.

* These are courses to be included for calculation of Major Subject GPA.

Geography

Code	Title	Credits	Dept	Category	Year - Sem
GGP1001	Foundation of Physical Geography	3	SSC/ SES	Major Core*	1 - 1
GGP1002	Understanding Cultural and Human Geography	3	SSC	Major Core*	1 - 1
GGP1003	Spatial Data Analysis and GIS	3	SSC	Major Core*	1 - 2
GGP1004	Globalizing China: The People and Development	3	SSC	Major Core*	1 - 2
GGP2005	Global Environmental Issues	3	SSC	Major Core*	2 - 2
GGP2006	Conservation and Management of Natural Resources	3	SSC	Major Core*	2 - 1
GGP3007	Natural Hazards	3	SSC/ SES	Major Core*	2 - 1
GGP3008	Climate Change and Global Warning	3	SSC	Major Core*	3 - 1
GGP3009	Economic Geography	3	SSC	Major Core*	4 - 1
GGP4010	Geomorphology and Hydrology	3	SSC/ SES	Major Core*	4 - 2
GGP4011	Urbanization and Transportation: Theory and Policy	3	SSC	Major Core*	4 - 2
GGP4012	Tourism and Sustainability	3	SSC	Major Core*	4 - 1
SSC3143	Transnational Migration and Development in Global Cities	3	SSC	Major Core*	2 - 2
GGP2013	Field Methods and Teaching in Geography	3	SSC	ES-Pedagogy for Major#	3 - Summer
GGP3014	Pedagogy in Geographical Education	3	SSC/ SES	ES-Pedagogy for Major	3 - 1

The course includes a compulsory overseas residential field study.

* These are courses to be included for calculation of Major Subject GPA.

Global Governance Studies

Code	Title	Credits	Dept	Category	Year - Sem
SSC1147	Introduction to Political Science	3	SSC	Minor Electives*	All - 2
SSC2149	Globalization: Concepts and Debates	3	SSC	Minor Electives*	All - 1
SSC3104	Global Environmental Governance	3	SSC	Minor Electives#	All - 2
SSC3187	The Politics of Climate Change	3	SSC	Minor Electives#	All - 1
SSC3189	World Ethics and Climate Change	3	SSC	Minor Electives#	All - 1
SSC3212	Global Political Economy	3	SSC	Minor Electives#	All - 1
SSC3243	Urban Growth, Governance and Smart City Development	3	SSC	Minor Electives#	All - 2
SSC3274	Global Politics	3	SSC	Minor	All - 1

SSC3295	United States Foreign Policy	3	SSC	Electives# Minor Electives*	All - 1

* Students who take Global Governance Studies as Minor are required to take any two out of the three courses.
\# Students who take Global Governance Studies as Minor are required to take any three out of the six courses.

Information and Communication Technology

BUS4009	Technology in Business and Human Advancement	3	SSC	Major Core*	4 - 1
IIT1080	Foundations of Information and Communication Technologies (ICTs)	3	MIT	Major Core*	1 - 1
IIT1081	Web Authoring and Internet Media	3	MIT	Major Core*	1 - 1
IIT1082	Introduction to Programming and Problem Solving	3	MIT	Major Core*	1 - 1
IIT3008	Database Management Systems	3	MIT	Major Core*	2 - 2
INT1022	Principles and Practice of Web Design	3	MIT	Major Core*	3 - 2
INT1031	Information Processing	3	MIT	Major Core*	1 - 2
INT2014	Advanced Programming	3	MIT	Major Core*	2 - 2
INT2026	Internetworking and Web Server Administration	3	MIT	Major Core*	2 - 1
INT2035	Software Development	3	MIT	Major Core*	4 - 2
INT3027	Web Database Design and Implementation	3	MIT	Major Core*	3 - 2
INT3028	Web Services Fundamentals	3	MIT	Major Core*	3 - 1
SSC1193	Internet, Politics and Law	3	SSC	Major Core*	2 - 1
IIT2063	Curriculum and Teaching Methods of IT	3	MIT	ES-Pedagogy for Major	2 - 1
IIT2064	Learning and Teaching of Selected Topics in IT	3	MIT	ES-Pedagogy for Major	3 - 1

Minor

IIT1080 / INT2065	Foundations of Information and Communication Technologies (ICTs) / Foundations of Information and Communication Technologies	3	MIT	Minor Electives#	2/3/4 - 1
IIT1081 / INT2066	Web Authoring and Internet Media / Web Design and Digital Authoring	3	MIT	Minor Electives#	2/3/4 - 1
IIT1082 / INT2067	Introduction to Programming and Problem Solving	3	MIT	Minor Electives#	2/3/4 - 1 / 2/3/4 - 2
IIT2059	Information Technology Supported Learning Environment	3	MIT	Minor Electives#	2/3/4 - 2
IIT3008	Database Management Systems	3	MIT	Minor Electives#	2/3/4 - 2
INT2026 / INT3069	Internetworking and Web Server Administration / Internetworking	3	MIT	Minor Electives#	2/3/4 - 1 / 2/3/4 - 2
INT2030	Teaching Information Technology in School Education	3	MIT	Minor Core	2/3/4 - 1
INT3028	Web Services Fundamentals	3	MIT	Minor Electives#	2/3/4 - 1
INT4029	Web Intelligence	3	MIT	Minor Electives#	2/3/4 - 1

\# Students who take Information and Communication Technology as Minor are required to take any four of the courses in addition to INT2030.
* These are courses to be included for calculation of Major Subject GPA.

Liberal Studies

INS2013	Curriculum and Methods in Liberal Studies I	3	SSC	Minor Core	3 - 1
SCI2562	Environmental Studies for Sustainable Development	3	SES	Minor Electives#	2 - 2
SCI2563	Public Health	3	SES	Minor Core	2 - 1
SCI2564	The Technology and Usage of Energy	3	SES	Minor Electives#	1 - 2
				Minor Electives#	2* - 2*
SSC2044	Hong Kong Studies	3	SSC	Minor Electives^	2 - 1
SSC3007	China Studies	3	SSC	Minor Electives^	2* - 2*
				Minor Electives^	4 - 2
SSC3134	Self and Society	3	SSC	Minor Core	3 - 1
SSC4136	Globalization: Issues and Perspectives	3	SSC	Minor Electives^	4 - 1

\# Students who take Liberal Studies as Minor are required to take one of the two courses.

^ Students who take Liberal Studies as Minor are required to take one of the three courses.

* A5B084 students who choose this course are required to follow this course offering sequence.

Mathematics (Primary)

MTH1025	Geometry and Measurement	3	MIT	Major Core*	1 - 1
MTH1065	Understanding Numbers	3	MIT	Major Core*	1 - 1
MTH1098	Calculus	3	MIT	Major Electives#*	2 - 2
MTH2044	Problem-solving in Primary Mathematics	3	MIT	Major Core*	2 - 1
MTH2050	Recreational Mathematics	3	MIT	Major Core*	1 - 2
MTH2099	Introduction to Analysis	3	MIT	Major Electives#*	2 - 2
MTH2016	Elementary Number Theory	3	MIT	Major Core*	2 - 1
MTH2102	Statistics	3	MIT	Major Electives+*	4 - 1
MTH2110	Sets and Logic	3	MIT	Major Core*	2 - 1
MTH2111	Development of Mathematical Ideas	3	MIT	Major Core*	1 - 2
MTH3100	Vectors and Geometry	3	MIT	Major Electives^*	3 - 2
MTH3101	Mathematical Exploration with Technology	3	MIT	Major Core*	3 - 1
MTH3104	Modern Algebra	3	MIT	Major Electives@*	3 - 2
MTH3112	Plane Geometry	3	MIT	Major Electives@*	3 - 2
MTH3139	Linear Algebra	3	MIT	Major Electives^*	3 - 2
MTH4103	Statistical Modeling	3	MIT	Major Electives+*	4 - 1
MTH4105	Probability	3	MIT	Major Core*	4 - 1
MTH2030	Learning, Teaching and Assessment in Primary Mathematics	3	MIT	ES-Pedagogy for Major	2 - 2
MTH3097	Curriculum and Teaching of Selected Topics in Primary Mathematics	3	MIT	ES-Pedagogy for Major	3 - 2

Minor

MTH1025	Geometry and Measurement	3	MIT	Minor Core	2 - 1
MTH2016 / MTH2162	Elementary Number Theory / Essential Number Theory	3	MIT	Minor Core	2 - 1 / 2/3 - 1
MTH2030	Learning, Teaching and Assessment in Primary Mathematics	3	MIT	Minor Core	2 - 2
MTH2044 / MTH2176	Problem-solving in Primary Mathematics / Mathematical Modelling for Problem-solving in Primary Mathematics	3	MIT	Minor Core	3 - 1
MTH3097	Curriculum and Teaching of Selected Topics in Primary Mathematics	3	MIT	Minor Core	4 - 2

#,^,+,@ : Students who take Mathematics as Major are required to take one of each, depending on their background.

* These are courses to be included for calculation of Major Subject GPA.

Mathematics (Secondary)

INT3075	Programming and Problem Solving for Mathematics	3	MIT	Major Electives#*	3 - 1
INT4060	Designing STEM Activities with Integrated Engineering and Mathematics	3	MIT & SES	Major Electives#*	4/5 - 2
MTH2099	Introduction to Analysis	3	MIT	Major Core*	1 - 2
MTH2110	Sets and Logic	3	MIT	Major Core*	1 - 1
MTH2154	Introduction to Number Theory	3	MIT	Major Core*	1 - 1
MTH3101	Mathematical Exploration with Technology	3	MIT	Major Core*	2 - 1
MTH3107	Multi-variable Calculus	3	MIT	Major Core*	2 - 1
MTH3139	Linear Algebra	3	MIT	Major Core*	1 - 1
MTH3142	Geometry	3	MIT	Major Core*	3 - 1
MTH3143	Differential Equations and Dynamical Modelling	3	MIT	Major Core*	2 - 2
MTH3152	Modern Algebra	3	MIT	Major Core*	2 - 2
MTH4144	Discrete Mathematics	3	MIT	Major Core*	3 - 2
MTH4145	Further Analysis	3	MIT	Major Electives#*	4/5 - 2
MTH4146	Numerical Methods	3	MIT	Major Electives#*	4/5 - 2
MTH4147	Complex Variables	3	MIT	Major Electives#*	4/5 - 2
MTH4153	Statistical Modelling	3	MIT	Major Core*	3 - 1
MTH4155	Applied Probability	3	MIT	Major Core*	2 - 1
MTH3076	Learning Theories and Curriculum in Mathematics	3	MIT	ES-Pedagogy for Major	2 - 2

MTH3077	Learning and Teaching of Selected Topics in Secondary Mathematics	3	MIT	ES-Pedagogy for Major	3 - 1

Minor

MTH2099	Introduction to Analysis	3	MIT	Minor Electives^	1 - 2
MTH2110 / MTH2170	Sets and Logic / Sets, Logic and Discrete Mathematics for Secondary Mathematics	3	MIT	Minor Electives^	1 - 1
MTH2154 / MTH2162	Introduction to Number Theory / Essential Number Theory	3	MIT	Minor Electives^	1 - 1 / 1 - 2
MTH3077 / MTH4171	Learning and Teaching of Selected Topics in Secondary Mathematics	3	MIT	Minor Core	4 - 2
MTH3107	Multi-variable Calculus	3	MIT	Minor Electives^	2 - 1
MTH3139	Linear Algebra	3	MIT	Minor Electives^	1 - 1
MTH3142	Geometry	3	MIT	Minor Electives^	3 - 2
MTH3152	Modern Algebra	3	MIT	Minor Electives^	2 - 2
MTH4155	Applied Probability	3	MIT	Minor Electives^	2 - 2

\# Students who take Secondary Mathematics as Major are required to take either one of these Elective courses.

^ Students who take Secondary Mathematics as Minor are required to choose any four out of the eight courses in addition to MTH3077/MTH4171.

* These are courses to be included for calculation of Major Subject GPA.

Music

MUS1248	Creative Musicking	3	CCA	Minor Electives#	1/2/3 - 2
MUS2250	Traditions and Practices of Music I	3	CCA	Minor Electives#	1/2/3 - 1
MUS2251	Popular Music and Society	3	CCA	Minor Electives#	2/4 - 2
MUS3252	Traditions and Practices of Music II	3	CCA	Minor Electives#	2/3/4 - 1
MUS3257	Chinese Music Culture	3	CCA	Minor Electives#	2/4/5 - 1
MUS3258	Performance Matters I	3	CCA	Minor Electives#	3/4 - 2

\# Students who take Music as Minor are required to choose any five out of the six courses.

National and Moral Education

SSC2038	History of Modern China	3	SSC	Minor Core	3 - 2
SSC2173	National and Moral Education: Ideals and Practices	3	SSC	Minor Core	2 - 1
SSC3019	Local Themes and Issues	3	SSC	Minor Core	2 - 2
SSC3174	National Themes and Issues	3	SSC	Minor Core	4 - 1
SSC3175	National and Moral Education: Curriculum and Methods	3	SSC	Minor Core	4 - 2

Physical Education

PES2161	Essentials of Human Anatomy and Physiology	3	HPE	Major Core*	1 - 2
PES2163	Foundations of Dance	3	HPE	Major Core*	2 - 1&2
PES2164	Theory and Practice of Individual Physical Activities	3	HPE	Major Core*	1 - 1&2
PES2174	Theory and Practice of Team Ball Games	3	HPE	Major Core*	3 - 1&2
PES2177	Theory and Practice of Racquet Games	3	HPE	Major Core*	2 - 1&2
PES3160	Philosophical and Historical Foundations of PE and Sports	3	HPE	Major Core*	1 - 1
PES3162	Motor Learning, Control and Development	3	HPE	Major Core*	3 - 1
PES3165	Principles of Exercise Physiology	3	HPE	Major Core*	2 - 2
PES3166	Health & Fitness in Schools and Community	3	HPE	Major Core*	3 - 2
PES3167	Physical Education for Children with Special Needs	3	HPE	Major Core*	4 - 2
PES3168	Measurement and Evaluation in Physical Education	3	HPE	Major Core*	4 - 1
PES3172	Fundamental Movement for Junior Primary School	3	HPE	Major Core*	2 - 1&2
PES4169	Psychology and Sociology of Sport and Exercise	3	HPE	Major Core*	5 - 1
PES2179	Curriculum Design in Physical Education	3	HPE	ES-Pedagogy for Major	3 - 1

| PES2180 | Methods of Teaching in Physical Education | 3 | HPE | ES-Pedagogy for Major | 2 - 2 |

* These are courses to be included for calculation of Major Subject GPA.

Note: For PE subject, 1 credit point may normally exceed to a maximum of 18 contact hours.

Resources Management

GGP1003	Spatial Data Analysis and GIS [will not be offered from 2019/20]	3	SSC	Minor Electives^	All - 1/2
GGP2020	Spatial Data Analysis and GIS [From 2019-2024 cohort and onwards]	3	SSC	Minor Electives^	All - 1/2
GGP3017	Protected Areas Planning and Management	3	SSC	Minor Electives#	All - 1/2
GGP3018	Principles and Practice of Ecotourism	3	SSC	Minor Electives#	All - 1/2
GGP3019	Cultural Heritage Conservation and Management	3	SSC	Minor Electives#	All - 1/2
SSC1237	Understanding Cities	3	SSC	Minor Electives^	All - 1/2
SSC2149	Globalization: Concepts and Debates	3	SSC	Minor Electives^	All - 1
SSC3229	Social and Geographical Changes in Hong Kong	3	SSC	Minor Electives#	All - 1/2
SSC4140	Sustainable Development and Policy	3	SSC	Minor Electives#	All - 1
SSC4146	Urbanization in China: Policy and Governance [will not be offered from 2019/20]	3	SSC	Minor Electives#	All - 2

^ Students who take Resources Management as Minor are required to take one to two out of the three courses.

Students who take Resources Management as Minor are required to take three to four out of the six courses.

Science

Foundation Course

SCG1001	Scientific Investigation: Principles and Techniques	3	SES	Major Core*	1 - 1
SCI2073	Studies in Forms and Processes of Life	3	SES	Major Core*	1 - 1
SCI2074	Chemistry Principles	3	SES	Major Core*	1 - 1
SCI2076	Foundations of Science Education	3	SES	Major Core*	1 - 2
SCP2001	Physical Concepts in Daily-life	3	SES	Major Core*	1 - 2

Biology Major (Advanced Course)

SCB2001	Biodiversity	3	SES	Major Core*	2 - 1
SCB2002	Plant and Animal Physiology	3	SES	Major Core*	2 - 2
SCB2003	Ecology	3	SES	Major Core*	2 - 2
SCB3004	Human Anatomy and Physiology	3	SES	Major Core*	3 - 1
SCB3005	Human Health and Diseases	3	SES	Major Core*	3 - 2
SCB3006	Cells and Microbiology	3	SES	Major Core*	3 - 1
SCB4007	Environmental Pollution and Toxicology	3	SES	Major Electives^*	4 - 1
SCB4008	Cellular Biochemistry	3	SES	Major Electives^*	4 - 1
SCB4009	Genetics and Evolution	3	SES	Major Core*	4 - 1
SCB4010	Biotechnology: Principles and Applications	3	SES	Major Core*	4 - 2
SCB3011	Teaching and Learning of Secondary Biology	3	SES	ES-Pedagogy for Major	3 - 1 / 4 - 1

Chemistry Major (Advanced Course)

SCC2001	Organic Chemistry: Molecule & Isomerism	3	SES	Major Core*	2 - 1
SCC2002	Inorganic Chemistry: s, p & d Block Elements	3	SES	Major Core*	2 - 1
SCC2003	Physical Chemistry: Properties, Thermodynamics and Equilibrium	3	SES	Major Core*	2 - 2
SCC3004	Analytical Chemistry: Instrumentation & Quantitative Analysis	3	SES	Major Core*	3 - 1
SCC3005	Materials Chemistry: Resource, Material & the Environment	3	SES	Major Core*	3 - 2
SCC3006	Industrial Chemistry: Environmental & Technology	3	SES	Major Core*	3 - 2
SCC4007	Advanced Organic Chemistry: Synthesis & Applications	3	SES	Major Core*	4 - 1
SCC4008	Advanced Inorganic Chemistry: Coordination Chemistry	3	SES	Major Core*	4 - 1
SCC4009	Advanced Physical Chemistry: Kinetics, Mechanism & Electrochemistry	3	SES	Major Electives+*	4 - 2
SCC4010	Advanced Material Sciences	3	SES	Major Electives+*	4 - 2
SCC3011	Teaching and Learning of Secondary Chemistry	3	SES	ES-Pedagogy	3 - 1 / 4 - 1

Physics Major (Advanced Course)

Code	Title	Credit	Dept	Category	Year-Sem
				for Major	
SCP2003	Optics and Waves	3	SES	Major Core*	2 - 1
SCP2004	Classical Mechanics	3	SES	Major Core*	2 - 2
SCP2005	Electricity and Mangnetism	3	SES	Major Core*	2 - 2
SCP3006	Thermodynamics and Statistical Physics	3	SES	Major Core*	3 - 1
SCP3007	Physical Concepts in the Microscopic World	3	SES	Major Core*	3 - 1
SCP3008	Computers in Physics: Coding Techniques and Instrumentation	3	SES	Major Core*	3 - 2
SCP4009	Methods in Theoretical Physics	3	SES	Major Electives#*	4 - 1
SCP4010	Essential Concepts in Biophysics	3	SES	Major Electives#*	4 - 1
SCP4011	Astronomy and Astrophysics	3	SES	Major Core*	4 - 2
SCP4012	Modern Physics	3	SES	Major Core*	4 - 2
SCP3013	Teaching and Learning of Secondary Physics	3	SES	ES-Pedagogy for Major	3 - 1 / 4 - 1

Minor

Code	Title	Credit	Dept	Category	Year-Sem
SCI3033	Science, Technology and Society	3	SES	Minor Core	1/2/3 - 1
SCI2073	Studies in Forms and Processes of Life	3	SES	Minor Core	1/2/3 - 2
SCI2074	Chemistry Principles	3	SES	Minor Core	1/2/3 - 2
SCI3107	Foundations of Science and STEM Education	3	SES	Minor Core	4/5 - 1
SCP2001	Physical Concepts in Daily-life	3	SES	Minor Core	1/2/3 - 2

^ Students who take Biology as Major are required to take either one courses.

+ Students who take Chemistry as Major are required to take either one courses.

Students who take Physics as Major are required to take either one courses.

* These are courses to be included for calculation of Major Subject GPA.

Students who had taken SCG1001, SCI1035, SCI1073 and/or SCI3076 in previous years will also be allowed to claim the Science Minor.

Visual Arts

Code	Title	Credit	Dept	Category	Year-Sem
ART1155	Craft	3	CCA	Minor Electives#	All - 1/2
ART1156	Contextual Studies of Art	3	CCA	Minor Electives#	All - 1/2
ART1197	Graphic Communication	3	CCA	Minor Electives#	All - 1/2
ART2181	Drawing for Visualization and Experimentation	3	CCA	Minor Electives#	All - 1/2
ART3169	Design for Living	3	CCA	Minor Electives#	All - 1/2
ART3182	Function and expression in Ceramics	3	CCA	Minor Electives#	All - 1/2
ART3183	Painting as expression and Identity	3	CCA	Minor Electives#	All - 1/2
ART3185	Digital Imaging and Interactive Media	3	CCA	Minor Electives#	All - 1/2
ART3198	Print Media	3	CCA	Minor Electives#	All - 1/2
ART4159	Aesthetics and Art Criticism	3	CCA	Minor Electives#	All - 1/2
ART4168	Chinese Painting and Calligraphy	3	CCA	Minor Electives#	All - 1/2
ART4184	Sculpture, Installation and Environmental Art	3	CCA	Minor Electives#	All - 1/2

Students who take Visual Arts as Minor are required to choose any five out of the twelve courses.

II. Education Studies

Please also refer to the Major domain for the Discipline-based Education Studies courses (ie. Pedagogy for Major).

Code	Title	Credit	Dept	Category	Year-Sem
PSY2050	Basic Psychology for Educators: Useful Concepts from Educational and Positive Psychology	3	PS	Core	1 - 1
PFS2013	Philosophical and Socio-cultural Issues in Education	3	IE	Core	1 - 2
TLS2004	Effective Teaching & Positive Classroom Learning Environment	3	C&I	Core	2 - 1/2
TLS3003	Curriculum and Assessment	3	C&I	Core	2 - 1/2
SED3001	School Guidance and Managing Diversity	3	SEC	Core	3 - 1
EDA3026	Teachers and Teaching in Context	3	EPL	Core	3 - 2
TLS3005	Assessment for Productive Learning	3	C&I	Restricted Electives#	All - 1/2
TLS3006	Inquiring School-based Assessment: Issues and Strategies	3	C&I	Restricted Electives#	All - 1/2

TLS3007	School-based Curriculum Development	3	C&I	Restricted Electives#	All - 1/2
TLS3008	Teaching Innovations	3	C&I	Restricted Electives#	All - 1/2
EDA3035	Promoting Social Justice in School	3	EPL	Restricted Electives#	All - 1/2
EDA3036 / EDA3080	Social and Emotional Competence for Teachers / Teacher Emotions and Professional Agency	3	EPL	Restricted Electives#	All - 2
EDA4031	Teaching in Changing Times	3	EPL	Restricted Electives#	All - 1/2
EDA4032	School Governance for Teachers	3	EPL	Restricted Electives#	All - 2
PFS2014	International Perspectives on Education in Hong Kong	3	IE	Restricted Electives#	All - 1
PFS2015	Knowledge and Truth: Curriculum, Teaching and Learning	3	IE	Restricted Electives#	All - 2
PFS2016	Globalization and Education	3	IE	Restricted Electives#	All - 1
PFS2017	Education for a Meaningful Life: Great Thinkers	3	IE	Restricted Electives#	All - 2
PFS2031 / PFS2043	Context, Ideology and Values of International Schools / International Schools in Global Context	3	IE	Restricted Electives#	All - 1/2
PFS3032	Learning and Teaching in International Schools	3	IE	Restricted Electives#	All - 1/2
PSY2020	Human Development across the Lifespan	3	PS	Restricted Electives#	2/3/4/5 - 2
PSY3018	Child and Adolescent Psychopathology	3	PS	Restricted Electives#	2/3/4/5 - 1
PSY3019	Stress and Coping	3	PS	Restricted Electives#	2/3/4/5 - 1
PSY3021	Learning Theories and Processes	3	PS	Restricted Electives#	2/3/4/5 - 2
COU3008	Comprehensive School Guidance	3	SEC	Restricted Electives#	All - 1/2
COU3009	Counselling Theories, Process and Practice	3	SEC	Restricted Electives#	All - 1/2
SED3002	A Whole School Approach to Inclusive Practices	3	SEC	Restricted Electives#	All - 1/2
SED3003	Developing an Inclusive Classroom for Diverse Learning	3	SEC	Restricted Electives#	All - 1/2

Apart from the six core ES courses, students are required to take 2 ES restricted electives courses to fulfill the requirement of ES domain.

III. General Education

For detailed information about General Education courses, please refer to the General Education booklet or visit the website at http://www.eduhk.hk/geo.

IV. Honours Project

BUS4901/ INS4907/ MTH4901/ INT4900/ PES4902/ GGP4015/ SCG4024/ TLS4028/ ECE4174/ EDA4045/ PFS4029/ PSY4040/ SED4041	Honours Project I	3	A team of specialists across departments	Core	4 - 2
BUS4902/ INS4909/ MTH4902/ INT4901/ PES4903/ GGP4016/ SCG4025/ TLS4029/ ECE4061/ EDA4046/ PFS4030/ PSY4041/ SED4042	Honours Project II	3	Project-related departments	Core	5 - 1&2

V. Electives

For detailed information about Electives courses (including Free Electives, Minors and Second Majors), please visit The Portal (under "Timetable/Course Lists" and "Second Major/Minors").

VI. Field Experience

FEX1140	Field Experience I - Field Experience (FE)	-	Relevant	Core	1 - 1

Course	Title	Credits	Department(s)	Type	Semester
FEX1141	Field Experience I - Field Experience (FE) Induction 1	-	Relevant Department(s)	Core	2 - 2
FEX2126	Enhancing Learning through Other Learning Experiences Induction 2	3	EPL in coordination with other Departments	Core#	Any Semester 1
LSP2007	Learning Study	3	C&I	Core#	Any Semester 1/2
FEX2145	Professional Development and Field Experience Learning	3	SPFEO	Core#	Semester 1/2 in Year 2 or above^
FEX3124	Field Experience III - Block Practice I	5	Relevant Department(s)	Core	Year 3 Semester 2 or Year 4 Semester 2
FEX4125	Field Experience IV - Block Practice II	7	Relevant Department(s)	Core	Year 5 Semester 1
FEX4154	Field Experience III – The First Block Practice (Major 1) *	6	Relevant Department(s)	Core	Year 4 Semester 2
FEX4155	Field Experience IV – The Second Block Practice (Major 2) *	6	Relevant Department(s)	Core	Year 5 Semester 1

\# Students are required to take either one of the courses.

^ The course offering in Years 3-5 is subject to timetable arrangement.

* For A5B085 only.

VII. Language Enhancement

For the non-credit bearing language enhancement courses (including English, Chinese, Putonghua and Cantonese), please refer to Section 4 of the programme handbook or visit the CLE website (http://www.eduhk.hk/cle).

Course	Title	Credits	Department	Type	Semester
CLE1210	Academic English: Writing and Reading	3	CLE	Core	1 - 1
CLE1211	Academic English: Speaking and Reading	3	CLE	Core	1 - 2
CLE1221	Chinese Language I	3	CLE	Core	1 - 1

VIII. Co-curricular and Service Learning

More Co-curricular and Service Learning courses will be available in the subsequent years/semesters. For detailed information on the Co-curricular and Service Learning courses, please visit the website at https://www.eduhk.hk/re/modules/content/item.php?categoryid=42&itemid=40 or The Portal (under "Timetable/Course Lists").

Key

APS	Department of Asian and Policy Studies
CCA	Department of Cultural and Creative Arts
CLE	Centre for Language in Education
C&I	Department of Curriculum and Instruction
EPL	Department of Education Policy and Leadership
HPE	Department of Health and Physical Education
IE	Department of International Education
MIT	Department of Mathematics and Information Technology
PS	Department of Psychology
SEC	Department of Special Education and Counselling
SES	Department of Science and Environmental Studies
SSC	Department of Social Sciences
SPFEO	School Partnership and Field Experience Office
ES	Education Studies

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