

Programme Requirements for Bachelor of Science with Honours in Analytical Testing Science

1. Programme Requirement - Year 1 Entry

1.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Analytical Testing Science through Year 1 Entry, a student shall:

1.1.1 obtain 120 credit-units as prescribed below, of which no more than 30 credit-units shall be at 1000-level, at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

1.1.1.1 84 credit-units of core courses applicable to Year 1 Entry as listed in Table 1;

1.1.1.2 12 credit-units of elective courses (Group 1) from Table 2;

1.1.1.3 3 credit-units of elective courses (Group 1 or 2) from Table 2 or 3;

1.1.1.4 9 credit-units of University Core courses in Table 4;

1.1.1.5 6 credit-units of University English courses in Table 5;

1.1.1.6 6 credit-units of General Education (GE) courses (see www.hkmu.edu.hk/FT_GE for the updated list of GE courses)

and

1.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

2. Programme Requirement – Year 2 Entry

2.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Analytical Testing Science through Year 2 Entry, a student shall:

2.1.1 obtain 90 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

2.1.1.1 66 credit-units of core courses applicable to Year 2 Entry as listed in Table 1;

2.1.1.2 12 credit-units of elective courses (Group 1) from Table 2;

2.1.1.3 3 credit-units of elective courses (Group 1 or 2) from Table 2 or 3;

2.1.1.4 9 credit-units of University Core courses in Table 4

and

2.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

3. Programme Requirement – Year 3 Entry

3.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Analytical Testing Science through Year 3 Entry, a student shall:

3.1.1 obtain 66 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

3.1.1.1 42 credit-units of core courses applicable to Year 3 Entry as listed in Table 1;

3.1.1.2 12 credit-units of elective courses (Group 1) from Table 2;

3.1.1.3 3 credit-units of elective courses (Group 1 or 2) from Table 2 or 3;

3.1.1.4 9 credit-units of University Core courses in Table 4

and

3.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

Table 1: Core Courses

Course Code	Course Title	Credit-units	Year Entry		
			1	2	3
BIOL 1003SEF	Essential Biology	3	✓		
BIOL 2035SEF	Biochemistry & Microbiology	3	✓	✓	
BIOL 2036SEF	Cellular & Molecular Biology	3	✓	✓	
CHEM 1002SEF	Essential Chemistry	3	✓		
CHEM 3006SEF	Advanced Environmental Analysis	3	✓	✓	✓
CHEM 3050SEF	Analytical Chemistry	3	✓	✓	
SCI 1010SEF	Laboratory Safety & Good Laboratory Practice	3	✓		
SCI 1100SEF	General Chemistry Laboratory Training	3	✓		
SCI 1101SEF	General Biology Laboratory Training	3	✓		
SCI 2006SEF	Pharmacology & Toxicology	3	✓	✓	
SCI 2100SEF	Microbiology Laboratory Training I	3	✓	✓	
SCI 2101SEF	Chemical Analysis Laboratory Training I	3	✓	✓	
SCI 2102SEF	DNA & Biochemical Analysis Laboratory Training I	3	✓	✓	
SCI 3030SEF	Scientific Research Methods	3	✓	✓	✓
SCI 3031SEF	Biostatistics	3	✓	✓	✓
SCI 3090SEF	Professional Training & Workplace Attachment	3	✓	✓	✓
SCI 3100SEF	Microbiology Laboratory Training II	3	✓	✓	✓
SCI 3101SEF	Chemical Analysis Laboratory Training II	3	✓	✓	✓
SCI 3102SEF	DNA & Biochemical Analysis Laboratory Training II	3	✓	✓	✓
STAT 2610SEF	Data Analytics with Applications	3	✓		
TC 2020SEF	Metrology & Calibration	3	✓	✓	
TC 3015SEF	Management Systems for Testing, Inspection & Certification Bodies	6	✓	✓	✓
TC 3020SEF	Measurement Uncertainty & Test Method Development	3	✓	✓	✓
TC 4019SEF	Quality Management for Science & Technology	3	✓	✓	✓
TC 4020SEF	Professional Practice & Ethics	3	✓	✓	✓
TC 4093SEF	Testing & Analytical Science Project	6	✓	✓	✓

Table 2: Elective Courses (Group 1)

Course Code	Course Title	Credit-units
MLS 4001SEF	Molecular Diagnosis of Human Diseases	3
MLS 4002SEF	Frontiers in Medical Laboratory Techniques & Instrumentation	3
TC 4011SEF	Conformity Assessment & Medical Laboratory Accreditation	3

Course Code	Course Title	Credit-units
TC 4026SEF	Audit, Inspection & Certification	3
TC 4062SEF	Food Safety Management System: Audit & Certification	3
TC 4075SEF	Greenhouse Gas Validation & Certification	3

Table 3: Elective Courses (Group 2)

Course Code	Course Title	Credit-units
BIOL 3056SEF	Biochemical & DNA Technologies	3
ENVR 3074SEF	Green Environmental Monitoring in Practice	3
SCI 3065SEF	Food Analysis	3

Table 4: University Core Courses

Course Code	Course Title	Credit-units
UNI 1002ABW	University Core Values	2
UNI 1012ABW	Social Responsibilities	1
UNI 2002BEW	Effective Communication and Teamwork	3
UNI 3002BEW	Entrepreneurial Mindset and Leadership for Sustainability	3

Table 5: University English Courses

Course Code	Course Title	Credit-units
ENGL 1101AEF	University English: Reading and Writing	3
ENGL 1202EEF	University English: Listening and Speaking	3