

### Programme Specification (UG)

Awarding body / institution:	Queen Mary University of London
Teaching institution:	Queen Mary University of London
Name of final award and programme title:	Foundation Certificate (FdCert)
Name of interim award(s):	
Duration of study / period of registration:	1 year
QMUL programme code / UCAS code(s):	FGH2, UCFF-QMSEFP1, USBLS
QAA Benchmark Group:	
FHEQ Level of Award :	Level 3
Programme accredited by:	
Date Programme Specification approved:	
Responsible School / Institute:	School of Biological & Behavioural Sciences
Schools / Institutes which will also be involved	ved in teaching part of the programme:
School of Languages, Linguistics & Film	
Collaborative institution(s) / organisation(s	) involved in delivering the programme:

#### Programme outline

The FdCert International Science and Engineering Foundation Programme (ISEFP Biological Sciences) provides an alternative route onto a range of Biology-based undergraduate degrees. QMUL offers tailored pathways for subjects across science and engineering.

Our ISEFP Biological Sciences is open to international students and is taught entirely at the Mile End campus by university staff. As a foundation student, you have access to all QMUL's facilities and will be a full-time student of the university.

#### Highlights:

- Opportunity to apply to biological undergraduate degrees after completing the Foundation year at the appropriate level
- Study at campus-based university within easy reach of all of London's attractions
- Full access to all student facilities (academic, welfare, IT, library, social and sport)
- Experienced and well-qualified teaching staff, many of whom teach on undergraduate and postgraduate programmes

#### Aims of the programme

The ISEFP Biological Sciences will equip you with the skills and knowledge to undertake an undergraduate degree in biological



sciences. Successful completion of this programme at the appropriate level can guarantee you a place on one of the following programmes upon application:

Biochemistry BSc

Biology BSc

Biomedical Sciences BSc

Medical Genetics BSc

Neuroscience BSc

Pharmacology and Innovative Therapeutics BSc

Psychology BSc

Zoology BSc

#### What will you be expected to achieve?

- Pass 105 credits including SEF030 Communication in Science and Technology, SEF031 Form and Function in Biology, SEF032 Molecules to Cells and either SEF040 Mathematics A or SEF041 Mathematics B.
- Achieve an overall average of 60%
- For progression onto particular programmes there may be additional requirements. Please check the handbook or contact fedu@qmul.ac.uk for more information.

# Please note that the following information is only applicable to students who commenced their Level 4 studies in 2017/18, or 2018/19

In each year of undergraduate study, students are required to study modules to the value of at least 10 credits, which align to one or more of the following themes:

- networking
- multi- and inter-disciplinarity
- international perspectives
- enterprising perspectives.

These modules will be identified through the Module Directory, and / or by your School or Institute as your studies progress.

Acad	demic Content:
A1	Introduction to organic chemistry: identification of functional groups and classes of organic compounds, organic nomenclature, the hybridisation approach to rationalising bonding, isomerism.
A2	Introduction to atomic structure: electrons, protons and neutrons, mass and atomic numbers, isotopes and radioactivity, measures of size of atoms and ions.
А3	Define the rate, order and activation energy of a chemical reaction and understand how catalysts affect the kinetics of reactions.
A4	Understand the basic principles of thermodynamics and carry out calculations on enthalpy changes in reactive systems.
A5	Microbes: The basic biology of viruses, bacteria, protists and fungi.



A6	Cell Biology: Prokaryotic and eukaryotic cellular structure, cellular organisation, cellular organelles and lipid membranes.	
A7	Mathematical topics such as algebra, functions, geometry and trigonometry, and an introduction to the techniques of calculus.	

Disc	Disciplinary Skills - able to:					
B1	present data in reports in a readily-assimilated fashion, and in accord with scientific conventions					
B2	balance chemical equations and perform calculations relating mass, concentration and molar quantity.					
В3	discuss the reactivity of a range of organic compounds, including alkenes, halogenated alkanes, aromatic and carbonyl compounds.					
В4	understand a range of appropriate and relevant experimental techniques and how they are used; be able to perform some of them.					

Attrik	Attributes:				
C1	To grasp the principles and practices of their field of study				
C2	To produce analyses which are grounded in evidence				
С3	To apply their analytical skills to investigate unfamiliar problems				
C4	To work individually and in collaboration with others				
C5	To develop a strong sense of intellectual integrity				
C6	To acquire substantial bodies of new knowledge				

#### How will you learn?

Independent study

For every hour spent at university you will be expected to complete additional hours of independent study. Your individual study time could be spent preparing for, or following up on formal study sessions; reading; assessing data from experiments; completing lab reports; and revising for examinations.

The direction of your individual study will be guided by the formal study and laboratory sessions you attend, along with your reading and assignments. However, we expect you to demonstrate an active role in your own learning by reading widely and expanding your own knowledge, understanding and critical ability.

Independent study will foster in you the ability to identify your own learning needs and determine which areas you need to focus on to become proficient in your subject area. This is an important transferable skill and will help to prepare you for the transition to working life.

#### How will you be assessed?

To pass a module, you must achieve an overall mark of 40% or above. The overall mark in most modules is based on your performance in both the examination and coursework, the weighting of these two components vary. You must also meet the necessary progression requirements in order to progress to the next year, at present this is a minimum of 60% average across all modules though this is subject to change.



#### How is the programme structured?

Please specify the structure of the programme diets for all variants of the programme (e.g. full-time, part-time - if applicable). The description should be sufficiently detailed to fully define the structure of the diet.

The programme structure outlined below is indicative of what you will study. It may change slightly from year to year as new topics are introduced and after we have listened to current student feedback on teaching.

The ISEFP Biological Sciences modules are designed to best prepare you for continuing your studies in biological sciences at undergraduate level. You will take 8 modules in total over two semesters, starting in September.

Year Long Modules

Compulsory, depending on your previous Maths qualifications, either:

SEF040 Mathematics A (double module, runs across semester 1 and 2)

SEF041 Mathematics B (double module, runs across semester 1 and 2)

Semester 1

Based on your IELTS score, either: SEF030A Communication in Science & Technology or

SEF009 English 1

Compulsory modules:

SEF003 Introductory Chemistry
SEF031 Form and Function in Biology

Semester 2

Only for those who take SEF009 in Semester 1: SEF030B Communication in Science & Technology

Compulsory modules: SEF032 Molecules to Cells

SEF033 Diversity and Ecology

SEF033 Diversity and Ecology

For those who take SEF030 in Semester 1:

SEF004 A Closer Look at Chemistry

#### Academic Year of Study

Module Title	Module Code	Credits	Level	Module Selection Status	Academic Year of Study	Semester
Communication in Science and Engineering (CST)	SEF030	15	3	Core	0	Semester 1 or 2
Introductory Chemistry	SEF003	15	3	Compulsory	0	Semester 1
Mathematics A	SEF040	30	3	Elective	0	Semesters 1 & 2



Module Title	Module Code	Credits	Level	Module Selection Status	Academic Year of Study	Semester
Mathematics B	SEF041	30	3	Elective	0	Semesters 1 & 2
Form and Function in Biology	SEF031	15	3	Compulsory	0	Semester 2
A Closer Look at Chemistry	SEF004	15	3	Elective	0	Semester 2
Diversity and Ecology	SEF033	15	3	Compulsory	0	Semester 2
English 1	SEF009	15	3	Elective	0	Semester 1
Molecules to Cells	SEF032	15	3	Compulsory	0	Semester 2

#### What are the entry requirements?

The International Science and Engineering Foundation programme (ISEFP) is suitable for international students with qualifications up to AS-level/Year 12 or equivalent, i.e. students who have not completed A-level in their home countries or in the LIK

You will need to provide transcripts (official report/certificate of grades or percentages) from one of the following:

International High School Diploma, or an equivalent diploma for the final year of schooling in your country, including mathematics in your final year. Please email isefpadmissions@qmul.ac.uk to enquire about specific entry requirements.

We consider every application on its individual merits and will take into consideration your individual educational experiences and context.

# How will the quality of the programme be managed and enhanced? How do we listen to and act on your feedback?

The Student-Staff Liaison Committee (SSLC) provides a formal means of communication and discussion between the School and its students. The committee consists of student representatives from each year in the School, together with appropriate representation from staff within the School. It is designed to respond to the needs of students, as well as act as a forum for discussing programme and module developments. The Student-Staff Liaison Committees meets regularly throughout the year.

The Teaching & Learning Committee advises the School's Director of Taught Programmes on all matters relating to the delivery of taught programmes at school level, including monitoring the application of relevant QM policies and reviewing proposals for module and programme approval and amendment before submission to Taught Programmes Board. Student views are incorporated in the committee's work in a number of ways, such as through consideration of student surveys and input from the SSLC.

All schools/institutes operate an Annual Programme Review of their taught undergraduate and postgraduate provision. APR is a continuous process of reflection and action planning which is owned by those responsible for programme delivery; the main document of reference for this process is the Taught Programmes Action Plan (TPAP) which is the summary of the school/institute's work throughout the year to monitor academic standards and to improve the student experience. Students' views are considered in this process through analysis of the NSS and module evaluations.

#### What academic support is available?

Each student is provided with an advisor who is their main point of contact for advice regarding academic matters and for



assistance with pastoral concerns, throughout their whole programme. Students can see their advisors in their office hours or arrange an appointment via email. Moreover, if and when advisors are unavailable or cannot help with a specific problem, the School has several Senior Advisors to assist with student concerns.

The School also operates a PASS programme for peer guidance.

#### How inclusive is the programme for all students, including those with disabilities?

Queen Mary has a central Disability and Dyslexia Service (DDS) that offers support for all students with disabilities, specific learning difficulties and mental health issues. The DDS supports all Queen Mary students: full-time, part-time, undergraduate, postgraduate, UK and international at all campuses and all sites.

Students can access advice, guidance and support in the following areas:

- Finding out if you have a specific learning difficulty like dyslexia
- Applying for funding through the Disabled Students' Allowance (DSA)
- Arranging DSA assessments of need

N/A

- Special arrangements in examinations
- Accessing loaned equipment (e.g. digital recorders)
- Specialist one-to-one "study skills" tuition
- Ensuring access to course materials in alternative formats (e.g. Braille)
- Providing educational support workers (e.g. note-takers, readers, library assistants)
- Mentoring support for students with mental health issues and conditions on the autistic spectrum.

Programme-specific rules and facts	Pro	grami	me-spe	cific	rules	and	facts
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Links with employers, placement opportunities and transfer	able skills
Upon completion of the ISEFP and following degree programme, half of our gradusciences including teaching, research or environmental monitoring and regulation biotechnology industry. The remaining half move on to other jobs or further trainieducation: numeracy, computer literacy, data handling and analysis, descriptive arbiotechnology and scientific methods.	n, sales work and careers in the growing ing but take transferable skills from a scientific
Recent graduate roles include:	
laboratory technician,	
data analyst,	
public health officer,	
market researcher.	
NHS administrator,	

### **Programme Specification Approval**

Person compl	etina	Programme	<b>Specification:</b>
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medical representative, environmental consultant.

Sarahlouise Lawrence



Person responsible for management of programme:	Dr Chris Bray
Data Duangement Consideration and decod / amanded by	
Date Programme Specification produced / amended by School / Institute Learning and Teaching Committee:	
Date Programme Specification approved by Taught	
Programmes Board:	

