

Section 2 - Module Specification

Module Title Module Code

Credit Value Level Mode of Delivery Semester

Pre-requisite modules	Co-requisite modules	Overlapping modules
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1) Content Description

Provide a description of the module, as it will appear in the Module Directory and on the Student Information System (approx. 70-80 words).

This module teaches practical and analytical skills. Starting with basic laboratory safety and routine laboratory procedures, we move on through DNA extraction and purification to microbiological and physiological techniques. There is also a taught component that focusses on data handling and analysis, as well as a series of tutorials that aim to teach group working and communication skills.

2) Module Aims

Specify the aims of the module, i.e. the broad educational purposes for offering this module.

The aim of this module is to ensure that first year biosciences students have a clear knowledge of the essentials of laboratory practice, experimental technique and data handling and analysis.

3) Learning Outcomes

Identify the learning outcomes for this module, i.e. knowledge, skills and attributes to be developed through completion of this module. Outcomes should be referenced to the relevant [QAA benchmark statements](#) and the be an exhaustive list of materials.

Practical Skills in Biology. Weyers, J., Reed, R. & Jones, A. (2012), Pearson.

[Framework for Higher Education Qualifications in England, Wales and Northern Ireland \(2008\)](#). The [SEEC Credit Level Descriptors for Further and Higher Education 2003](#) and [Queen Mary Statement of Graduate Attributes](#) should also be used as a guiding framework for curriculum design.

Academic Content:	
A1	Understand how to design and carry out experiments in the laboratory
A2	Understand how to collect and analyse simple datasets
Disciplinary Skills - able to:	
B1	Learn how to use a microscope
B2	Carry out basic laboratory procedures of biology, such as liquid handling , DNA analysis and microbiological work, competently
B3	Analyse and interpret experimental results
B4	Be able to interpret simple datasets and draw inference from them.
B5	Work safely in the laboratory
Attributes:	
C1	Engage critically with knowledge - acquire and apply knowledge in a rigorous way
C2	Engage critically with knowledge - connect information and ideas within their field of study
C3	Learn continuously in a changing world - use quantitative data confidently and competently
C4	Research capacity - produce analyses which are grounded in evidence
C5	Rounded intellectual development - transferrable key skills

4) Reading List

Provide an indicative reading list for the module. This should include key texts and/or journals but should not

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5) Teaching and Learning Profile

Provide details of the method of delivery (lectures, seminars, fieldwork, practical classes, etc.) used to enable the achievement of learning outcomes and an indicative number of hours for each activity to give an overall picture of the workload a student taking the module would be expected to undertake. This information will form the Key Information Set for each undergraduate programme and will be used to populate the KIS widget found on the QMUL programme information pages. More information can be found [online](#) about KIS. You may also wish to refer to the [QAA guidance on contact hours](#) when completing this section.

Activity Type	KIS Category	Time Spent (in hours)
Practical Classes and workshops	Scheduled	33
Tutorial	Scheduled	4
Total		37

Specify the total module notional study hours. This should be a total of the hours given for each activity. The notional study hours for each academic credit point is 10. A 15 credit point module therefore represents 150 notional study hours.

Activity Type	Total Time Spent (in hours)	Percentage of Time Spent
Scheduled learning and teaching	37	33
Placement	0	0
Independent Study	113	67
Total	150	100

Use the information provided in the box above to specify the total time spent and the percentage time spent in each category of teaching and learning activity.

6) Assessment Profile

Provide details of the assessment methods used to assess the achievement of learning outcomes.

Description of Assessment	Assessment Type	KIS Category	Duration / Length	% Weighting	Final element of assessment?	Qualifying Mark
Coursework	Written assignments, inc Essay	Coursework		25	Yes	
Practical	In-course Practical & Statistical Analysis Assessments	Practical		75	No	

Final element of assessment: The assessment that takes place last. **There should normally be only one element of assessment marked as final unless two assessment or submission dates occur on the same day.**

Qualifying mark: A specified minimum mark that must be obtained in one or more elements of assessment in order to pass a module. **This is in addition to, and distinct from, the requirement to achieve a pass in the module mark to pass the module.**

Reassessment

Provide details of the reassessment methods used, specifying whether reassessment is either standard reassessment or synoptic reassessment.

Standard Reassessment

Synoptic Reassessment

Synoptic reassessment details (if you have indicated synoptic reassessment above, please give details)		
Brief Description of Assessment	Assessment Type	Duration / Length of Examination / Coursework
Written Exam	Written Exam	1.5hr

Section 3 - Alternative Assessment Arrangements for Associate Students

This section **must only** be completed if the module will be made available to associate students in Semester A and where the credit value of the "associate" version is the same as for the main version, and the main version is assessed by exam in May which is not available to the associate students. All other aspects of the module specification remain the same as indicated in Section 2 above. To add alternative assessment arrangements please click 'Add Alternative Assessment'.

Section 4a - Half Module for Associate Students (for a half module to be taught in Semester A)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in **Semester A**. Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester A)'.

Section 4b - Half Module for Associate Students (for a half module to be taught in Semester B)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in **Semester B**. Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester B)'.