Module Specification

Module Title	Biochemistry Communication (2nd year)				Module Code	BIO201	
Credit Value	0	Level	5	Mode of Delivery	On Campus	Semester 2	
Module Organiser	Dr John Viles						

Pre-requisite modules	Co-requisite modules	Overlapping modules

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).

Most of the teaching will be via small-group tutorials where students will develop an appreciation and experience in various aspects of communication in biochemical science. The module will focus on types and structure of scientific literature, as well as types of journals and the process of peer review. Tutorials will cover approaches to effective short essay writing and delivering scientific talks. Attendance at research seminars is required and a library workshop to developing literature search skills. Tutorials will require a high level of student participation. A number of essays and other course will set and assessment for the module will be Coursework (60%) Final Exam (40%).

2) Module Aims

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

The aims of the module are to give students an understanding of the processes of communicating science.

Objects include:

1) An appreciation of the types and structure of scientific literature within a biochemical context and the process of peer review.
2) Approaches to searching for and using scientific literature
3) Effective short essays writing, in particular approaches to directly addressing a question, planning an essay and essay structure, editing your work.
4) Preparing and delivering a scientific talk Format of the module:

~Nine two hour tutorials
~Three formal lectures
A workshop: Library Based workshop, searching scientific literature Attendance at six or more, 1 hr Research Seminars

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 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.

A 3	Describe the process of peer review and journal hierarchy.
A 4	Apply the appropriate method of citation within scientific literature
A 5	Relate appropriate approached to searching for specific data concepts and arguments.
A 6	In short essay writing demonstrate the importance of defining terms within an introduction, planning the structure of an essay
A 7	Relate approaches to de-constructing essay questions to evaluate meaning

Academic Content::	
A 1	Distinguish the types of scientific literature within a biochemical context. For example: original articles, reviews and journalistic pieces.
A 2	Recall the structure of original articles within a biochemical context. In particular explain role of the: abstract; introduction; method; results; discussion and conclusion.

Disciplinary skills - able to:	
B 1	Make judgments and appraise the relevance and importance of scientific data arguments and concepts
B 2	Apply knowledge of the appropriate structure of an essay to plan and compose scientific argument
B 3	Arrange ideas, facts and intellectual arguments in a logic order
B 4	Revise and edit text
B 5	Prepare information for oral presentation
B 6	Present data and communicate ideas effectively both written and orally

Attributes:	
C 1	Grasp the principles and practices relating to the publication of scientific discovery
C 2	Connect information and ideas within the biochemical discipline
C 3	Critically evaluate the reliability of different sources of information.
C 4	Engage with the process of scientific discovery
C 5	acquire and apply knowledge in a rigorous way
	produce analyses which are grounded in evidence

C 6	
C 7	Use writing for learning and reflection
C 8	Respond appropriately to criticism
C 9	The ability to reflect upon and assess their own progress
C10	Possess transferable skills to help them with presenting data and arguments both orally and written

4)ReadingList

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

General Biochemistry Text Books and Journals

Teaching and Learning Profile

Provide details of the method of delivery (lectures, seminars, fieldwork, lab work, 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)
Tutorial	Scheduled	6
Lecture	Scheduled	1
Practical Classes and workshops	Scheduled	0
Seminar	Scheduled	0
Guided independent study	Independent	30
	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	7	19
Placement		
Independent Study	30	81
Total	37	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.

Assessment Profile

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

Brief Description of Assessment	Assessment Type	KIS Category	Duration / Length	% Weighting	Final element of assessment?	Qualifying Mark
Various writing tasks	Written assignment, inc Essay	Coursework			No	
	Written assignment, inc Essay	Coursework			No	

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
course work	Written assignment, inc Essay	

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)'.