Section 2 - Module Specific	ation			
Module Title Essential Biochemistry for Human Life				BMD223
Credit Value 15 Level	5 Mode of Delivery	On Campus	Semester	Semester 2
Module Organiser Dr Peter Th	norpe			
Pre-requisite modules	Co-requisite modules	Overlapping modu	odules	
BMD123 Biomolecules of Life				Ī
1) Content Description Provide a description of the mo System (approx. 70-80 words).	• •	dule Directory and c	on the Student	: Information
This module is only open to student information on selected specialised monosaccharide, fatty acid, steroid, specialisation; and metabolic diseas	structural and functional bulk prote , amino acid and nucleotide metabo	ins including: selected	human physiolo	gical processes;
2) Module Aims Specify the aims of the module,	, i.e. the broad educational purp	oses for offering thi	s module.	
The course aims to provide bioch	emical information on:			
 selected human physiologic 	l, steroid, amino acid and nucleot	ide metabolic pathwa	ays	

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.

Acad	Academic Content:			
A 1	Explain how primary structure of a protein leads to tertiary (and higher) structure and biological function			
A 2	Explain the molecular reactions underpinning human physiological processes			
A 3	Describe the metabolic pathways of synthesis and degradation of the main groups of monomer biomolecule			
A4	Review the molecular mechanism regulating human metabolic pathways			
A5	Review biochemical specialisation of human tissues and organs			
A6	Describe diseases of human metabolism			

Disciplinary Skills - able to:

Students will learn how to identify core information about biochemical reactions that underpin human physiological functions, normal and dysfunctional metabolism and their manifestation in specialised tissues and organs and to supplement this with appropriate specific examples. The course will include some clinical SDL coursework and four practical exercises to develop biochemical practical skills.

Attributes:

Overall the module will improve the students' ability to handle theoretical information and enhance their practical skills

4) Reading List

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.

Voet & Voet Biochemistry, 3rd edition, pub Wiley

J.M. Berg, J.L. Tymoczko & L. Stryer, 2006. Biochemistry (Freeman) (6th Edition)

T. Devlin, 2006. Textbook of Biochemistry With Clinical Correlations ((Wiley-Liss) (6th Edition)

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)	
Lecture	Scheduled	24h	
Laboratory Practicals	Scheduled	12h	
	36h		

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	36h	24%	
Placement			
Independent Study	114h	76%	
Total	150h	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		Qualifying Mark
Exam	Written Exam	Written	2 hours	75	Yes	
Coursework	Coursework	Coursework		25	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 ReassessmentSynoptic 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		
Resit exam	Written Exam	2 hours		

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 <u>Semester A.</u> 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 <u>Semester B.</u> 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)'.