

PROGRAMME SPECIFICATION

FOR TAUGHT PROGRAMMES AT ALL LEVELS



Name of Programme:		Certificate in Higher Education in Medical Sciences	
Final award (BSc, MA etc.):		Certificate in Higher Education in Medical Sciences (CertHE in Medical Sciences)	
Awarding institution/body:	University of Buckingham	Teaching institution:	University of Buckingham, Crewe
School of Study:	Medipathways/Science & Medicine	Parent Department:	
Length of the programme:	9 months (2 Semesters)	Method of study:	Full time
Framework for Higher Education Qualifications (FHEQ) Level	4	Relevant subject benchmark statement (SBS)	Biosciences Biomedical Science
Professional body accreditation (if applicable):	N/A		
Criteria for admission to the programme:	Three A level passes (including Biology and Chemistry) at BBC or above. A third science preferred. English language level equivalent to at least 6.5 IELTS or GCSE English Language grade A-C. Mature and APEL students will be considered on an individual basis.	Cohort(s) to which this programme specification is applicable:	From September 2018
UCAS Code			

Summary of Programme

This is a 120-unit CertHE award in Medical Sciences, studied in two semesters. Subject coverage includes the following topics (note that these are not, in every case, the actual names of the modules).

- 1) The doctor-patient relationship.
- 2) Molecular Cell Biology.
- 3) Chemistry and Physics for the Life Sciences.
- 4) Neurobiology and Musculoskeletal control.
- 5) Gastrointestinal function and nutritional biochemistry.
- 6) Circulation, breathing and the interior milieu

Educational Aims of the Programme

The Programme emphasises current priorities in scientific medicine and medical education; fundamental concepts in biology; problem based approaches to learning; the role of evidence and mechanism in health; in silico approaches to biomedical research; the development of graduate cognitive attributes, in particular critique and innovation; and the development of professional and employability skills. Certificate holders are prepared for application to medical school, training in other health professions, and transfer to BSc schemes including that offered by Medipathways. Students will have the opportunity to participate in a range of enhancement activities; these are indicated in the transferable skills section.

Programme Learning Outcomes

<p><u>Knowledge and understanding:</u></p> <p>On successful completion of the CertHE programme, students will have knowledge and understanding of the following disciplines.</p> <ol style="list-style-type: none"> 1. Cell function and tissue architecture 2. Cell communication including endocrine signals 3. Biochemical pathways and metabolism 4. Macromolecular structure and function 5. Energy and matter transformations in biology 6. Chemical and physical processes and modeling 7. Biological information and its transmission 8. Physiological regulation and adaptation 9. Neuroscience and aspects of behaviour 10. Skeletomuscular function 11. The main organ systems and their interrelation 12. Data evaluation and interpretation 13. Bioethics, medical ethics, professional conduct 	<p>→</p>	<p><u>Teaching/Learning Strategy</u></p> <p>In the course of this programme, students will encounter these learning activities:</p> <ol style="list-style-type: none"> 1. Lectures 2. Class tutorials with preparation 3. Small group tutorials/task forces 4. Problem based learning 5. Journal clubs 6. Attendance at external events 7. Student-led seminars 8. In silico labs 9. Wet labs 10. Directed study 11. Personal statement, mock interview
<p><u>Cognitive (thinking) skills:</u></p> <p>The programme is designed to promote the development of these graduate attributes, which map onto scientific and medical habits of thought:</p> <ol style="list-style-type: none"> 1. Critical thinking 2. Synthesis of data from different sources 3. Justification/decision making 4. Innovative thinking 5. hypothesis testing 	<p>→</p>	<p><u>Teaching/Learning Strategy:</u></p> <ol style="list-style-type: none"> 1. Lectures 2. Class tutorials with preparation 3. Small group tutorials/task forces 4. Problem based learning 5. Journal clubs 6. Attendance at external events 7. Student-led seminars 8. In silico labs 9. Wet labs 10. Directed study 11. Personal statement, mock interview
	<p>→</p>	<p><u>Assessment Strategy:</u></p> <p>Students will meet these forms of assessment:</p> <ol style="list-style-type: none"> 1. Essays 2. Case reports 3. Exams and in-class tests 4. Timed open-source tasks 5. Tutorial and journal club participation 6. Portfolio entries 7. Wet and dry lab outputs and reports 8. Problem Based Learning reports 9. Presentations, posters, student lectures

<p><u>Practical skills (subject specific):</u></p> <ol style="list-style-type: none"> 1. Laboratory technique: protocols in cell biology, chemistry, biochemistry and anatomy 2. Assessment of histological specimens 3. Bioinformatic skills 4. Practical biomedical modelling 5. Practical statistics and meta-analysis 	<p>→</p>	<p><u>Teaching/Learning Strategy:</u></p> <ol style="list-style-type: none"> 1. Intensive lab exercise: cell biology, neuroscience, endocrinology, renal system, chemistry. 2. Cadaver lab visit 3. Bioinformatics lab 4. Modelling lab 5. Lectures/demonstrations 6. Tutorial
<p><u>Transferable skills (generic):</u></p> <ol style="list-style-type: none"> 1. Constructive thinking, 2. Independent learning and self-guided study 3. Team working skills 4. Communicating effectively, 5. Self-awareness and reflection 6. Time Management skills 7. Planning and Organisational skills 8. IT skills 	<p>→</p>	<p><u>Teaching/Learning Strategy:</u></p> <ol style="list-style-type: none"> 1. Medmentor reports/MMI performance 2. Medipathways student conference 3. The programme embeds these professional and employability skills in class tutorials, assessments, and the PBL process. <p><u>Assessment Strategy:</u></p> <ol style="list-style-type: none"> 1. Timed open-source tasks 2. Tutorial and journal club participation 3. Portfolio entries 4. Wet and dry lab outputs and reports 5. PBL reports 6. Presentations, posters, student lectures
<p><u>External Reference Points</u></p> <p>The following reference points were used in designing the programme</p>		
<ul style="list-style-type: none"> • Framework for Higher Education Qualifications (http://www.qaa.ac.uk/Publications/InformationAndGuidance/Pages/quality-code-A1.aspx); • How to Use Learning Outcomes and Assessment Criteria by David Gosling and Jenny Moon. Published by SEEC. (http://www.seec.org.uk/publications/how-use-learning-outcomes-and-assessment-criteria). 		
<p>Please note: This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each course unit/module can be found in the departmental or programme handbook. The accuracy of the information contained in this document is reviewed annually by the University of Buckingham and may be checked by the Quality Assurance Agency.</p>		
<p>Programme Director(s) Name(s):</p>		
<p>Date of Production:</p>		
<p>Date approved by School Learning and Teaching Committee</p>		
<p>Date approved by School Board of Study</p>		
<p>Date approved by University Learning and Teaching Committee</p>		
<p>Date of Annual Review:</p>		

Programme Structure: CertHE in Medical Sciences

September Entry

All modules are 20 units, except where specified

Semester					
1	Foundations of Medical Science (L4, 4)	Molecular Cell Biology (L4, 20)	Brain, Muscle and Coordination (L4, 20)	Matter and Energy in Medicine (L4, 20)	Doctors, Patients and Health (L4, 20)
	Examinations (2 papers, BMC & MCB)				
2	Gut, Hormones and Metabolism (L4, 20)		Circulatory System and Fluid Balance (L4, 20)	Examinations (3 papers, GHM, CFB, MEM)	