

# **Programme Specification**

# **Course record information**

Name and level of final award:	MSc Biomedical Sciences (Haematology)  The MSc. Biomedical Sciences (Haematology) is a postgraduate degree that is Bologna FQ-EHEA first cycle degree or diploma compatible.		
Name and level of intermediate awards:	Postgraduate Diploma Biomedical Sciences		
	Postgraduate Certificate Biomedical Sciences		
Awarding body/institution:	University of Westminster		
Status of awarding body/institution:	Recognised Body		
Location of delivery:	Cavendish Campus		
Language of delivery and assessment:	English		
Course/programme leader:	Dr Tony Madgwick		
Course URL:	http://www.westminster.ac.uk/courses/subjects/biomedical-sciences/postgraduate-courses/full-time/p09fpbch-biomedical-sciences-haematology-msc		
Mode and length of study:	Full time (1 year) and part time day		
University of Westminster course code:			
JACS code:			
UCAS code:			
QAA subject benchmarking group:			
Professional body accreditation:	Institute of Biomedical Science		
Date of course validation/review:	2014		
Date of programme specification:	May 2014		

### **Admissions requirements**

There are standard minimum <u>entry requirements</u> for all postgraduate courses. Students are advised to check the standard requirements for the most up-to-date information.

For most courses a decision will be made on the basis of your application form alone. However, for some courses the selection process may include an interview to demonstrate your strengths in addition to any formal entry requirements.

More information can be found here: westminster.ac.uk/courses/postgraduate/how-to-apply

### **Accreditation of Prior Learning (APL)**

The University operates a system of awarding credit for prior learning, either accredited (APCL) or experiential (APEL), which may contribute up to a maximum of 50% of the credits required for an award. If students think their prior experiential learning (e.g. work experience) or accredited learning (e.g. other study they may have undertaken) may qualify them for accreditation and thereby exemption from one or more modules they should contact their Course Leader.

### Aims of the course

The course aims to stimulate an enquiring, analytical approach to haematology and transfusion science so that students will be able to take a more proactive role in research, development, evaluation and implementation of current techniques while perceiving the subject in the broader perspective of health care and scientific progress.

# **Employment and further study opportunities**

Today's organisations need graduates with both good degrees and skills relevant to the workplace, ie employability skills. The University of Westminster is committed to developing employable graduates by ensuring that:

- Career development skills are embedded in all courses
- Opportunities for part-time work, placements and work-related learning activities are widely available to students
- Staff continue to widen and strengthen the University's links with employers in all sectors, involving them in curriculum design and encouraging their participation in other aspects of the University's career education and guidance provision
- Staff are provided with up-to-date data on labour market trends and employers' requirements, which will inform the service delivered to students.

The course has been designed to provide professional scientists with a broad range of skills for laboratory haematology practice. By successfully completing this course, graduates will enhance their career prospects. Graduates may continue with their studies by entering PhD or professional doctorate programmes or perhaps further masters courses such as MBAs. Graduate employment opportunities may be available in hospital laboratories, universities, research institutes, contract research organisations, and commercial companies involved in pharmaceutical and/or diagnostic research and development. Part-time students are normally already in laboratory-based employment.

# **Learning outcomes**

Learning outcomes are statements on what successful students have achieved as the result of learning. These threshold statements of achievement and are linked to the knowledge, understanding and skills that a student will have gained on successfully completing a course.

### Knowledge and understanding

By the end of their course of study, the successful student will be able to:

- critically evaluate and discuss the role of haematology in the investigation of human diseases and their therapy;
- contribute to the practice of biomedical science by applying key skills of critical analysis, evaluation and communication;
- develop competence, confidence and an enquiring, investigative approach;
- integrate information from diverse sources relevant to haematology
- articulate contemporary ethical dilemmas associated with the study of human pathology.

The scope of the modules included will ensure a breadth of knowledge appropriate for the scientific and professional needs of practising laboratory haematologists, at the same time making use of the knowledge and experience of the students themselves.

### Specific skills

By the end of their course of study, the successful student will be able to:

- critically discuss the mechanisms of production of blood cells and the factors that regulate these processes;
- critically discuss the normal functioning of blood cells and of the plasma elements of the haemostatic system, particularly at the molecular level, together with the interand intra-cellular processes that influence these functions;
- critically evaluate the pathogenesis, laboratory investigation and diagnosis of haematological disorders;
- understand and apply appropriate therapeutic monitoring techniques;
- interpret haematological data;
- critically discuss the indications for and principles of blood transfusion:
- assess procedures used for provision of blood and blood components to hospitals;
- critically discuss the mechanisms underlying untoward effects of blood transfusion;
- independently design effective experiments and research strategies by conducting a research project;
- analyse and present data correctly and informatively;
- critically discuss experimental results in the light of current knowledge and propose future investigations.

### Key transferable skills

By the end of their course of study, the successful student will be able to:

- work effectively with a group as a leader or member, to produce team seminars
- use a full range of learning resources in making literature searches via the library,
   PubMed, World Wide Web, University intranet, and in using on-line teaching material,
   word processors, spreadsheets, and databases;
- show self evaluation skills, reflecting on own and others' functioning via coursework feedback, project reports, critical reviews of scientific articles and peer evaluation;
- manage information effectively by competently undertaking research tasks and compiling reviews and discussion essays;
- show autonomy by acting as an independent and self-critical learner, managing requirements and undertaking research tasks with minimum guidance;

- communicate effectively by means of oral, written and poster presentations, using print and electronic resources, reporting information, ideas and actions clearly, autonomously and competently;
- demonstrate problem solving skills by interpreting data, designing and carrying out projects and experimental work, and making professional use of others where appropriate.

Master's degrees are awarded to students who have demonstrated:

- a systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of research in Haematology, and professional practice
- a comprehensive understanding of techniques applicable to their own research or advanced scholarship
- originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline
- conceptual understanding that enables the student:
  - to evaluate critically current research and advanced scholarship in Haematology
  - o to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

Typically, holders of the qualification will be able to:

- deal with complex issues both systematically and creatively, make sound judgements in the absence of complete data, and communicate their conclusions clearly to specialist and non-specialist audiences
- demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level
- continue to advance their knowledge and understanding, and to develop new skills to a high level.

# And all holders will have:

- the qualities and transferable skills necessary for employment requiring:
  - o the exercise of initiative and personal responsibility
  - o decision-making in complex and unpredictable situations
  - the independent learning ability required for continuing professional development.

# Learning, teaching and assessment methods

#### Learning

The Course views the student as being at the centre of the learning process and students are expected to take responsibility for their own learning, to further develop skills acquired by their previous study and to further pursue knowledge through active engagement with learning resources provided.

### **Teaching**

The Course itself utilises a variety of teaching methods and approaches, including a mixture of formal lectures, practical sessions, tutorials (student-centred learning activities), poster presentations and oral presentations. These combined teaching approaches aim to improve both students' knowledge of Haematology, as well as helping to develop their critical

faculties through an experiential approach. In addition, the key communication skills required by any professional scientist are developed throughout the course.

Teaching methods are flexible and will make use of a variety of media. Data projectors are present in all lecture and tutorial rooms attached to a fixed pc but with the option for lecturers to attach their own laptop if preferred. All rooms are also equipped with visualisers and whiteboards to allow a variety of interactive teaching styles. The University is also equipped with the Blackboard Virtual Learning Environment (VLE) which functions both at a course and modular level with every course and module having a dedicated Blackboard site all accessible from the user's homepage. Module Blackboard sites acts as a focal point for interaction between staff and students away from the classroom environment. They contain administrative and teaching content for the module, allow students to participate in learning activities and interact with staff and their peers in open discussion fora. Blackboard is also used to manage the online submission of coursework, plagiarism checking and return of student marks via the grade centre, improving the flexibility of student access and learning.

#### **Assessment**

Each module in the programme has its own aims and teaching, learning and assessment methods that have been set up to facilitate its learning outcomes. Module assessment is either on the basis of 50% examination and 50% course work, or else 100% course work. Assessment methods are varied and include essays, practical work, group work, presentations and reports.

### **Course structure**

This section shows the core and option modules available as part of the course and their credit value. Full-time Postgraduate students study 180 credits per year.

Credit Level 7					
Module code	Module title	Status	UK credit	ECTS	
7BIOM007W	Cellular haematology	Core	20	10	
7BIOM018W	Immunohaematology and haemostasis	Core	20	10	
7BIOM028W	Molecular science and diagnostics	Core	20	10	
Award of Postgraduate Certificate available					
Module code	Module title	Status	UK credit	ECTS	
Any three of the option modules shown below					
7BIOM001W	Advanced cancer biology	Option	20	10	
7BIOM005W	Automation in biomedical sciences	Option	20	10	
7BIOM006W	Cell signalling and genetics	Option	20	10	
7HMDS002W	Communicating science	Option	20	10	
7BIOM020W	Immunopathology (Haematology-Cancer)	Option	20	10	
7BIOM040W	Immunopathology (Infectious diseases)	Option	20	10	
7BIOM025W	Molecular and cellular therapeutics	Option	20	10	
7BIOM034W	Principles of molecular medicine	Option	20	10	
Award of Postgraduate Diploma available					
Module code	Module title	Status	UK credit	ECTS	
7BIOM033W	Postgraduate research methods	Core	20	10	
7BIOM032W	Postgraduate project	Core	40	20	
Note: 7BIOM032W may be exchanged for a 60 credit extended project (with prior agreement of course leader and proposed project supervisor) in which case only two 20 credit level 7 option modules will be taken					
Award of MSc available					

Please note: Not all option modules will necessarily be offered in any one year.

## **Academic regulations**

The MSc Biomedical Science (Haematology) and its intermediate awards operate in accordance with the University's Academic Regulations and the Framework for Higher Education Qualifications in England, Wales and Northern Ireland published by the Quality Assurance Agency for Higher Education (QAA) in 2008.

All students should make sure that they access a copy of the current edition of the general University handbook called Essential Westminster, which is available at <a href="westminster.ac.uk/essential-westminster">westminster.ac.uk/essential-westminster</a>. The following regulations should be read in conjunction with Section 18: Modular Framework for Postgraduate Courses and relevant sections of the current Handbook of Academic Regulations, which is available at <a href="westminster.ac.uk/academic-regulations">westminster.ac.uk/academic-regulations</a>

#### **Award**

To qualify for the award of MSc Biomedical Science (Haematology), a student must have:

- obtained a minimum of 180 credits at Level 7 (this may include a maximum of 30 credits at Level 6 where validated as part of the award);
- attempted modules worth no more than 240 credits; and
  - Note: A first attempt of any module will count as an attempt, and a re-attempt of any module that a student has failed will count as a further, separate attempt. Reassessment following referral at the first sit will not count as a further separate attempt.
- satisfied the requirements contained within any course specific regulations for the relevant Course Scheme.

The University may award:

- a Masters Degree with Merit to a student whose marks average at least 60% across modules at Level 7.
- a Masters Degree with Distinction to a student whose marks average at least 70% across the modules at Level 7.

## Support for students

Upon arrival, an induction programme will introduce students to the staff responsible for the course, the campus on which they will be studying, the Library and IT facilities and to the Faculty Registry. Students will be provided with the Course Handbook, which provides detailed information about the course. Students are allocated a personal tutor who can provide advice and guidance on academic matters.

Student support at the departmental level continues with the Postgraduate Academic Tutorial Sessions (PATS) which provide students with the underpinning skills to successfully transfer from undergraduate to postgraduate level and enable students to achieve their potential. PATS sessions include study skills, preparation for the research project and careers/further study workshops. Support with academic English is also available with screening conducted as part of the orientation programme and a programme of tutorials designed to provide students with the underpinning skills in the English language to successfully study the biosciences at postgraduate level.

Learning support includes four libraries, each holding a collection of resources related to the subjects taught at their Faculty. Students can search the entire library collection online through the Library Search service to find and reserve printed books, and access electronic resources (databases, e-journals, e-books).

Students can choose to study in the libraries, which have areas for silent and group study, desktop computers, laptops for loan, photocopying and printing services. They can also choose from several computer rooms at each campus where desktop computers are available with the general and specialist software that supports the courses taught at their Faculty. Students can also securely connect their own laptops and mobile devices to the University wireless network.

The University uses a Virtual Learning Environment called Blackboard where students access their course materials, and can communicate and collaborate with staff and other students.

At University level, Services for Students provide advice and guidance on accommodation, financial and legal matters, personal counselling, health and disability issues, careers and the chaplaincy providing multi-faith guidance. The International Office provides particular support for international students. The University of Westminster Students' Union also provides a range of facilities to support all students during their time at the University.

## Reference points for the course

# Internally

- University of Westminster Mission Statement
- University teaching and learning policies.
- University quality assurance handbook and Modular Frameworks.
- · Handbook of Academic Regulations.
- Faculty of Science and Technology teaching, learning and assessment strategies.
- The research and practice of staff in the Department/ Faculty have influenced not only the breadth of the curriculum on offer, but also teaching and learning.

#### **Externally**

- QAA The framework for higher education qualifications in England, Wales and Northern Ireland, Level 7, August 2008, QAA 264 08/08
- The South East England Consortium (SEEC, 2010) descriptors have been adopted by the University as good practice
- PSRB guidance:
  - o Institute of Biomedical Science.
  - The Health and Care Professions Council.
- Department of Biomedical Sciences Advisory Group.

# **Professional body accreditation**

The course is accredited by the Institute of Biomedical Science (IBMS)

# **Quality management and enhancement**

#### **Course management**

The management structure supporting the courses is as follows:

- The Course leader, responsible for day to day running and overall management of the course and development of the curriculum
- Dr John Murphy, Head of Department, holds overall responsibility for the course, and for the other courses run by the Department of Biomedical Sciences within the Faculty of Science and Technology
- Mark Baldwin, Dean of Faculty, holds overall responsibility for the course and for other courses run by the Faculty of Science and Technology

The management structure is further supported by the Course Team. Its membership is as follows:

- Course Leader
- full-time staff teaching the course, including Module Leaders and representatives of all major subject areas
- visiting lecturers and outside advisors, where appropriate.

Course teams consider those aspects of the course not covered by the Course Committee such as timetabling, rooming and preparation and monitoring of examinations and assessments.

### Course approval, monitoring and review

This course was approved by a University Validation Panel in 2014. The panel included internal peers from the University and external subject specialists from academia and industry to ensure the comparability of the course to those offered in other universities and the relevance to employers. Periodic course review helps to ensure that the curriculum is upto-date and that the skills gained on the course continue to be relevant to employers.

The course is monitored each year by the Faculty to ensure it is running effectively and that issues which might affect the student experience have been appropriately addressed. Staff will consider evidence about the course, including the outcomes from each Course Committee, evidence of student progression and achievement and the reports from external examiners, to evaluate the effectiveness of the course. The Annual Monitoring Sub-Committee considers the Faculty action plans resulting from this process and the outcomes are reported to the Academic Council, which has overall responsibility for the maintenance of quality and standards in the University.

## Student involvement in Quality Assurance and Enhancement

Student feedback is important to the University and student views are taken seriously. Student feedback is gathered in a variety of ways. The most formal mechanism for feedback on the course is the Course Committee. Student representatives will be elected to sit on the Committee to represent the views of their peer group in various discussions. The University and the Students' Union work together to provide a full induction to the role of the Course Committee.

All students are invited to complete a Module Feedback Questionnaire before the end of each module. The feedback from this will inform the module leader on the effectiveness of the module and highlight areas that could be enhanced. The University also has an annual Student Experience Survey, which elicits feedback from students about their course and University experience.

Students meet with review panels when the periodic review of the course is conducted to provide oral feedback on their experience on the course. Student feedback from course committees is part of the Faculty's' quality assurance evidence base.

For more information about this course: T.Madgwick@westminster.ac.uk

**Please note:** This programme specification provides a concise summary of the main features of the course and the learning outcomes that a student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided. This specification should be read in conjunction with the Course Handbook provided to students and Module Handbooks, which provide more detailed information on the specific learning outcomes, content, teaching, learning and assessment methods for each module.

Copyright of University of Westminster 2014 ©