

**A. Programme Specification and Curriculum Map
for BSc (Hons) Medical Physiology (Specialism)**

1. Programme title	BSc (Hons) Medical Physiology
2. Awarding institution	Middlesex University
3. Teaching institution	Middlesex University
4. Programme accredited by	
5. Final qualification	BSc (Hons) Medical Physiology (Cardiovascular Science) BSc (Hons) Medical Physiology (Neuroscience)
6. Academic year	2015/2016
7. Language of study	English
8. Mode of study	Full-time and Part-time

9. Criteria for admission to the programme

Candidates normally require Maths and English equivalent to at least GCSE grade C or an IELTS score band 6 as well as 280 to 300 A level tariff points or equivalent from one of the following awards.

- A-levels (including two A2s with at least one science subject, preferably in biology or chemistry at grade C or better)
- Or Two AVCEs or one double award in Science
- Or EDEXCEL National Diploma or Certificate in biology, chemistry, forensic science, laboratory and industrial science, or medical science
- Or Access course in applied science, clinical physiology, human or life sciences, medical or paramedical science, or science.
- Or high school equivalent, such as an International Baccalaureate

Applicants can make a claim for entry onto the programme with or without advance standing on the basis of either accreditation of prior certified learning or experiential learning.

iii Overseas Candidates should also be competent in English and have achieved, as a minimum, one of the following standards: IELTS-6.0 or equivalent.

Applicants with a disability can enter the programme following assessment to determine if they can work safely in the laboratory. The programme team have experience of adapting teaching provision to accommodate a range of disabilities and welcome applications from students with disabilities.

10. Aims of the programme

The programme aims to provide students with the an opportunity to:

- Gain a detailed knowledge of normal and abnormal physiology;
- Acquire knowledge and skills required to carry out arrange of investigative

techniques used to assess and diagnose normal and abnormal physiological functions;

- Apply scientific methods and approaches to research, development and innovation;
- Develop a range of employability skills required for effective life-long learning, communication, teamworking and leadership.

11. Programme outcomes	
<p>A. Knowledge and understanding</p> <p>On completion of this programme the successful student will have knowledge and understanding of:</p> <ol style="list-style-type: none"> 1. Normal and abnormal human physiology; 2. The principles of diagnosis and treatment of human disease; 3. The importance of scientific research in the advancement of knowledge and to evidence-based practice; <p>Cardiovascular Science</p> <ol style="list-style-type: none"> 4. The skills required to monitor and assess respiratory and cardiovascular functions. <p>Neuroscience</p> <ol style="list-style-type: none"> 4. The skills required to monitor and assess brain and nerve functions. 	<p>Teaching/learning methods</p> <p>Students gain knowledge and understanding through lectures, seminars, laboratory classes, peer presentations, debates, placements in clinical physiology departments, designing and undertaking a research project, role-play and practical clinical sessions.</p> <p>Assessment Method</p> <p>Students' knowledge and understanding is assessed by summative and formative assessment, including peer presentations, laboratory reports, objective-structured practical examinations, online quizzes, and unseen theory examinations and assessment of clinical practice.</p>
<p>B. Cognitive (thinking) skills</p> <p>On completion of this programme the successful student will be able to:</p> <ol style="list-style-type: none"> 1. Critically evaluate research evidence in the context of current theory or practice; 2. Solve physiological problems; 3. Appraise and synthesise information to gain new insights into aspects of current practice; 4. Reflect on own learning and practice to develop personally and professionally. 	<p>Teaching/learning methods</p> <p>Students learn cognitive skills through lectures, seminars, discussions, peer presentations, a research project and debates, placements, practical clinical sessions.</p> <p>Assessment Method</p> <p>Students' cognitive skills are assessed by formative and summative assessment as written work, examinations, online quizzes, case studies, assessment of clinical practice and peer presentation</p>
<p>C. Practical skills</p> <p>On completion of the programme the successful student will be able to:</p>	<p>Teaching/learning methods</p> <p>Students learn practical skills through laboratory classes, clinical skills</p>

<ol style="list-style-type: none"> 1. Present information in the most effective format to communicate ideas clearly; 2. Design and carry out a research project or clinical audit; 3. Perform a wide range of investigative techniques in accordance with health and safety guidelines. 	<p>sessions, placements, and by undertaking a research project.</p> <p>Assessment Method</p> <p>Students' practical skills are assessed formatively and summatively through written work, case presentations, laboratory reports, online quizzes, and in objective structured practical examinations, and assessment of clinical practice.</p>
<p>D. Graduate Skills</p> <p>On completion of this programme the successful student will be able to:</p> <ol style="list-style-type: none"> 1. Communicate their ideas effectively to different audiences using a variety of media; 2. Work both collaboratively and with an appreciation of skills required for leadership; 3. Demonstrate an autonomous and reflective approach to lifelong learning; 4. Formulate learning and career development plans; 5. Use a range of information technologies; 6. Demonstrate a high level of numeracy and problem-solving skills. 	<p>Teaching/learning methods</p> <p>Students acquire graduate skills through reading, group work, problem-based learning exercises, structured and directed learning, analysis of case studies, and through reflection, placement and development of portfolio material</p> <p>Assessment method</p> <p>Students' graduate skills are assessed formatively and summatively using written work in the form of portfolios, and also in case studies, presentations, project and research work, and online examinations</p>

12. Programme structure (levels, modules, credits and progression requirements)

12.1 Overall structure of the programme

Students, who pass all modules, can exit after year 1 with a CertHE or after year 2 with a DipHE in Medical Physiology.

BSc(Hons) Medical Physiology (Cardiovascular Science)

Year 1

BMS1234 Professional Practice (30 Credits)	BMS1454 Healthcare Science 1 (30 Credits)	BMS1614 Healthcare Science 2 (15 Credits)	BMS1804 Introduction to Physiological Sciences 1 (15 Credits)	BMS1884 Introduction to Physiological Sciences 2 (30 Credits)
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Year 2

BMS2015 Research Methods and Professional Practice (30 Credits)	BMS2625 Medical Instrumentation and Imaging (15 Credits)	BMS2445 Cardiovascular and Respiratory Conditions (30 Credits)	BMS2885 Cardiovascular Science (45 Credits)
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Year 3

BMS3336 Dissertation (30 Credits)	BMS3766 Negotiated Learning (30 Credits)	BMS3816 Applied Cardiovascular Science 1 (30 Credits)	BMS3846 Applied Cardiovascular Science 2 (30 Credits)
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. BSc(Hons) Medical Physiology (Neuroscience)

Year 1

BMS1234 Professional Practice (30 Credits)	BMS1454 Healthcare Science 1 (30 Credits)	BMS1614 Healthcare Science 2 (15 Credits)	BMS1814 Physiological Sciences 1 (15 Credits)	BMS1894 Physiological Sciences 2 (30 Credits)
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Year 2

BMS2015 Research Methods and Professional Practice (30 Credit Points)	BMS2455 Neurological Conditions (45 Credits)	BMS2625 Medical Instrumentation and Imaging (15 Credits)	BMS2925 Clinical Neurophysiology (30 Credits)
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Year 3

BMS3306 Dissertation (30 Credits)	BMS3766 Negotiated Learning (30 Credits)	BMS3906 Applied Clinical Neurophysiology 1 (30 Credits)	BMS3956 Applied Clinical Neurophysiology 2 (30 Credits)
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12.2 Levels and modules

Level 4

COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
Students must take all of the following: Core: BMS1234 BMS1454 BMS1614 Cardiovascular Science BMS1804 BMS1884 Neurosciences BMS1814 BMS1894	There are no optional modules.	All modules must be passed.

Level 5

COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
Students must take all of the following: Core: BMS2015 BMS2625 Cardiovascular Science BMS2445 BMS2885 Neurosciences BMS2455 BMS2925	There are no optional modules.	All modules must be passed.

Level 6		
COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
<p>Students must take all of the following:</p> <p>Core:</p> <p>BMS3336</p> <p>BMS3766</p> <p>Cardiovascular Science</p> <p>BMS3816</p> <p>BMS3846</p> <p>Neurosciences</p> <p>BMS3906</p> <p>BMS3956</p>	There are no optional modules.	All modules must be passed.

12.3 Non-compensatable modules (note statement in 12.2 regarding FHEQ levels)

Module level	Module code
4	None
5	None
6	BMS3336

13. A curriculum map relating learning outcomes to modules

See Curriculum Map attached.

14. Information about assessment regulations

- The assessment regulations are the general university regulations.
- Aegrotat degree could be offered in medical physiology without a specialism in the title of the award.

15. Placement opportunities, requirements and support

Not-applicable

16. Future careers (if applicable)

On graduation, you can either continue your studies at postgraduate level by taking a diploma, Master's degree or PhD or seek employment in a variety of careers.

A graduate can undertake further studies for a career in the NHS as a clinical physiologist, clinical exercise physiologist, healthcare scientist, physiotherapists, nurse or a medical doctor. Fast-track training programmes are available for many NHS professions.

A career in education at a school, college or university is also an option. Other science related careers include research and development industry or academia, science communication, journalism or publishing, and scientific sales and marketing in particular of diagnostic equipment.

Examples of non-science related careers are market research or analysis, retail or operation management and public or private administration.

17. Particular support for learning (if applicable)

Specialist laboratory facilities available on site to learn and develop practical skills
Online support for all modules in the programme available on My Learning
Learning resource facilities at the University including computing suites and internet access
Access to English Language and Learning Support on campus
Dyslexic support

18. JACS code (or other relevant coding system)

B121

19. Relevant QAA subject benchmark group(s)

N/A

20. Reference points

The following reference points were used in designing the Programme:

Internal documentation:

- i. Middlesex University (2006) *Learning Framework Document*
- ii. Middlesex University (2013) *Middlesex University Regulations*. MU
- iii. Middlesex University (2013) *CLQE Handbook*. MU

External Documentation:

1. Quality Assurance Agency (2001) *The QAA Framework for framework for higher education qualifications in England, Wales and Northern Ireland*. QAA
2. Quality Assurance Agency (2007) [Code of practice for the assurance of academic quality and standards in higher education - Section 9: Work-based and placement learning](#). QAA
3. Department of Health (DH) (2010) *Modernising Scientific Careers Programme BSc (Hons) in Healthcare Science, Cardiovascular, Respiratory and Sleep Sciences (Physiological Sciences), Learning Outcomes and Indicative Content 2010/11*. DH
4. Department of Health (DH) (2010) *BSc (Hons) Healthcare Physiological Sciences: Cardiovascular, Respiratory and Sleep Sciences 2010/11 draft training manual*. DH

21. Other information

Please note programme specifications provide a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve if s/he takes full advantage of the learning opportunities that are provided. More detailed information about the programme can be found in the student programme handbook and the University Regulations.

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