

Disclosure and Barring Service (DBS) and health clearances are also required, which must be achieved before the start of the placement. Students do not pay for the DBS and health checks. Students, who do not get either a DBS or health clearance, will be able to discuss their options with the programme team.

The programme aims:

- To develop the knowledge, skills, attitude and ethical values required to provide patient-centred care and work safely and effectively in both the NHS and private healthcare sector as a Cardiac Physiologist.
- To apply scientific principles and theories underpinning healthcare science to patient care.
- To equip students to carry out competently diagnostic and therapeutic cardiac physiology investigations relevant to the role of a Healthcare Science Practitioner.
- To apply scientific methods and approaches to research, development and innovation in healthcare science.
- To develop a range of transferable academic skills required for effective life-long learning, communication, team working and leadership.

On completion of this programme the successful student will have a

On completion of this programme the successful student will be able to:

1. Critically evaluate research evidence in the context of current theory and practice
2. Solve clinical problems
3. Appraise and synthesise evidence-based information to gain new insights into aspects of current practice
4. Reflect on own learning and practice to develop personally and professionally
5. Present information in the most effective format to communicate ideas clearly
6. Design and carry out research project
7. Perform a wide range of clinical procedures competently, and in accordance with health and safety guidelines
8. Work within scope of practice and professional codes of conduct
- 9.

Students learn cognitive, practical and graduate skills through lectures, seminars, discussions, peer presentations, a research project and debates, placements, practical clinical sessions.

Experiential learning also includes laboratory classes, clinical placements, and a research project.

These skills are consolidated by reading, group work, problem-based learning exercises, structured and directed learning, analysis of case studies, and through reflection, placement and development of portfolio material

Students' skills are assessed via formative and summative assessment by written work, examinations, online quizzes, case studies, assessment of clinical practice and peer presentation.

Written work includes laboratory reports and research findings, with clinical skills also

- Students, who have passed year 1 modules, can exit with a CertHE in Healthcare Science
- Students, who have passed year 1 and 2 modules, can exit with a DipHE in Healthcare Science

(includes 10 weeks of placement in term 2 starting in week 16) (15 Credits)				
	(30 Credits)	(15 Credits)	(15 Credits)	(15 Credits)



(includes 15 weeks of placement starting at the end of term 2) (30 Credits)				
	(15 Credits)	(30 Credits)	(45 Credits)	

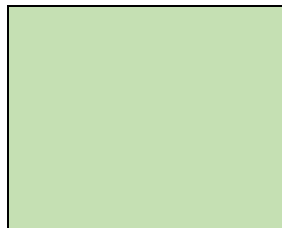


(Includes 25 weeks of placement: 3 weeks prior to Term 1; then 22 weeks from teaching week 10)
(30 Credits)

(30 Credits)

(15 Credits)

(45 Credits)



(includes 10 weeks of placement in term 2 starting in week 16)

(15 credits)

(30 Credits)

(15 Credits)

(Formerly BMS1804)

(15 Credits)

(includes 15 weeks of

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Level 4		
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of the award; students will not have met the programme outcomes therefore will not be qualified to work as a healthcare science practitioner.

Placements are an integral part of the programme. Over the three years, students will spend a total of 50 weeks in a NHS clinical physiology department in London or the South East; 10 weeks in year 1, 15 weeks in year 2 and 25 weeks in year 3.

Students are only placed in University approved learning environments. The designated Placement Officer, in collaboration with placement providers, will ensure that learning opportunities and support will be available in the placement area to help students meet the module learning outcomes and complete the Practitioner Training Programme (PTP) training manual.

Both parties will also ensure that a robust quality monitoring processes will be in place and establish clear lines of communication.

Prior to going on placement, students are required to get an enhanced DBS and Occupational Health clearance. Students, who do not get either an enhanced DBS or Occupational Health clearance, will be unable to go on placement, but will be able to discuss their options with the programme team. DBS checks and Occupational Health appointments are arranged by the University. Placement is unpaid.

Students are notified in advanced of their placement allocation and contact details of placement staff. Students will be required to attend placement Monday to Friday during normal working hours; 37.5 hours per week. Their duty rota may include Bank Holidays. Any absences must be reported to both the Programme Leader and the placement mentor, following local sickness reporting policies.

At the start of each placement, students will receive an induction and support and guidance will be provided for students with diverse needs.

Each placement area is given a copy of the placement handbook, which outlines, for example, lines of communication, contact details of key academic staff, attendance policy and complaints procedures. Practice learning is assessed using the training manual and written assignments.

In the final year, students have an opportunity to undertake a research project, which could include a clinical audit.



The following reference points were used in designing the Programme:

- Middlesex University (2019/20) *Middlesex University Regulations*. MU
 - Middlesex University (2019/20) *Learning and Quality Enhancement Handbook*. MU
1. Quality Assurance Agency (2008) *The QAA Framework for framework for higher education qualifications in England, Wales and Northern Ireland*. QAA
 2. Quality Assurance Agency (2010) *Code of practice for the assurance of academic quality and standards in higher education - Section 9: Work-based and placement learning*. QAA
 3. National School for Healthcare Science (2016) *Modernising Scientific Careers, Practitioner Training Programme, BSc (Hons) Healthcare Science Curriculum: Cardiovascular, Respiratory and Sleep Sciences 2016/17*

- A free electronic core textbook for every module.
- Printing and photocopying required for study.
- Self-service laptops available for 24 hour loan

(see programme handbook for further details)

The following course-related costs are not included in the fees:

- Travel costs to Middlesex campus
- Travel costs *within* London (i.e. within TfL Travel Zones) during placement:

- Travel card / season tickets, cost depending on start point of journey
- Placement location to be provided during the first term.

You also be required to purchase the following to complete the course:

- Visits to NHS meetings (~ 4 one-day travel cards / year)
- Additional books that you wish to purchase

Students that are placed outside of London (i.e. beyond TfL Travel Zone 9) will have travel costs or accommodation paid by the University.

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 rest of your programme handbook and the university regulations.

This section shows the highest level at which programme outcomes are to be achieved by all graduates, and maps programme learning outcomes against the modules in which they are assessed.

A1	Skills and attitude required to work as a healthcare science practitioner	B5	Present information in the most effective format to communicate ideas clearly
A2	Normal and abnormal human anatomy and physiology	B6	Design and carry out a research project or clinical audit
A3	The principles of diagnosis and management of human diseases	B7	Perform a wide range of clinical procedures competently, and in accordance with health and safety guidelines
A4	The sciences underpinning quality healthcare delivery	B8	Work within scope of practice and professional codes of conduct
A5	The importance of scientific research in the advancement of healthcare practice	B9	Communicate their ideas effectively to patients, relatives, carers and colleagues using a variety of media
A6	The role and skills required by the cardiac physiology practitioner in the delivery and monitoring of diagnostic and therapeutic investigations	B10	Work both collaboratively and with an appreciation of skills required for leadership
A7	The role of a Healthcare Science Practitioner and skills required for service improvement	B11	Demonstrate an autonomous and reflective approach to lifelong learning
B1	Critically evaluate research evidence in the context of current theory or practice	B12	Formulate learning and career development plans
B2	Solve clinical problems	B13	Use a range of information technologies
B3	Appraise and synthesise evidence-based information to gain new insights into aspects of current practice	B14	Demonstrate a high level of numeracy and problem-solving skills

B4	Reflect on own learning and practice to develop personally and professionally		
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