

1. Programme title	BSc (Hons) Neuroscience
2. Awarding institution	Middlesex University
3. Teaching institution	Middlesex University
4. Programme accredited by	
5. Final qualification	BSc (Hons) Neuroscience BSc Neuroscience DipHE Neuroscience
6. Academic year	2020/2021
7. Language of study	English
8. Mode of study	Full-time, Sandwich or 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 6.5 as well as 112 UCAS tariff points 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.

For information about suitable international qualifications, please visit:

<http://www.mdx.ac.uk/courses/help-with-your-application/support-in-your-country>

If your international qualification is not listed at the website or you need more information, please contact an admissions advisor on 020 8411 5555 or at <https://mdx.hobsons.co.uk/ask.aspx?did=23&kb=onload>.

Overseas Candidates should also be competent in English and have achieved, as a minimum, one of the following standards: IELTS-6.5 or equivalent.

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

10. Aims of the programme

The programme aims to provide students with an opportunity to:

- Gain a detailed knowledge of neuron structure and function;
- Develop an appreciation of key concepts and theories in cognitive neuroscience;
- Acquire knowledge and skills required to carry out a range of investigative techniques used to assess and diagnose normal and abnormal neuronal function;
- 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

A. Knowledge and understanding

On completion of this programme the successful student will have knowledge and understanding of:

1. Normal and abnormal neuronal function;
2. The mind and its processes;
3. The principles of diagnosis and treatment of neurological disorders;
4. The importance of scientific research in the advancement of knowledge and to evidence-based practice;
5. The skills required to monitor and assess brain and nerve functions;
6. Neuroimaging techniques.

Teaching/learning methods

Students gain knowledge and understanding through either online or on campus lectures and seminars, laboratory classes or virtual laboratory activities, peer presentations, debates, designing and undertaking a research project, role-play and practical clinical sessions.

Assessment Method

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 skills.

<p>B. 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 neurophysiological problems; 3. Appraise and synthesise information to gain new insights into aspects of neuroscience; 4. Reflect on own learning to develop personally; 5. Present information in the most effective format to communicate ideas clearly; 6. Design and carry out a research project; 7. Perform a wide range of investigative techniques in accordance with health and safety guidelines; 8. Communicate their ideas effectively to different audiences using a variety of media; 9. Work both collaboratively and with an appreciation of skills required for leadership; 10. Demonstrate an autonomous and reflective approach to lifelong learning; 11. Formulate learning and career development plans; 12. Use a range of information technologies; 13. Demonstrate a high level of numeracy and problem-solving skills. 	<p>Teaching/learning methods</p> <p>Students gain knowledge and understanding through either online or on campus lectures and seminars, laboratory classes or virtual laboratory activities, peer presentations, debates, designing and undertaking a research project, role-play and practical clinical sessions, 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' practical skills are assessed formatively and summatively through written work, case presentations, laboratory reports, online quizzes, in objective structured practical examinations, written work in the form of portfolios, and in case studies, presentations, project and research work, and online tests.</p>
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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

. BSc Neuroscience (FT/TKSW modes)

Year 1	Year 2	Final Year
BMS1464 (30 Credits) Foundation Neuroscience	BMS2955 (30 Credits) Neurophysiology	BMS3906 (30 Credits) Applied Clinical Neurophysiology 1
BMS1424 (30 Credits) Introduction to Neurology	BMS2415 (30 Credits) Neuropharmacology	BMS3496 (30 Credits) Clinical Neurology
BMS1414 (30 Credits) Contemporary Neuroscience and Professional Development	BMS2007 (30 Credits) Research Methods and Professional Practice	BMS3336 (30 Credits) Dissertation
PSY1020 (30 credits) Mind and Behaviour in Context	PSY2006 (30 Credits) Brain, Body and Mind	BMS/PSY3xxx (30 Credits) Option
N.B. TKSU students take BMS3006 Placement for Employability (120 Credits) in Year 3.	L6 Options: BMS3956 Applied Clinical Neurophysiology 2 BMS3766 Negotiated Learning PSY3052 - Neuropsychology: The healthy brain and what can go wrong with it PLUS PSY3036 - Fundamentals of Cognition: Human memory	

12.2 Levels and modules		
Level 4		
COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
Students must take all of the following: Core: BMS1414 BMS1424 BMS1464 PSY1020	There are no optional modules.	All modules must be passed.
Level 5		
COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
Students must take all of the following: Core: BMS2007 BMS2415 BMS2955 PSY2006	There are no optional modules.	All modules must be passed.
Level 6		
COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
Students must take all of the following: Core: BMS3336 BMS3496 BMS3906	One of these optional modules must be selected in the final year. BMS3766 BMS3956 PSY3052 plus PSY3036 Additionally, students on sandwich programme must select this module in year three. BMS3006	All modules must be passed.

12.3 Non-compensatable modules	
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.

15. Placement opportunities, requirements and support

Sandwich Route

In the third year, students undertake a year-long paid or unpaid placement either in the UK or abroad. The placement must be secured before the end of year 2. Potential placements include university research laboratories, pharmaceutical companies, and hospital research units or neurological departments.

The Employability Centre is available to help students to find a placement. It can also help students with their applications and advise them on interview techniques. For students interested in a placement in the EU, Erasmus grants are available.

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.

A career in academia is an option following postgraduate studies.

A good graduate can undertake the Scientific Training Programme for a career in the NHS as a clinical scientist in the field of neurosensory science.

Other science related careers include biotechnology or pharmaceutical industry, science teaching at schools and colleges, journalism or publishing, and scientific sales and marketing.

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)	B
19. Relevant QAA subject benchmark group(s)	N/A

20. Reference points
<p>The following reference points were used in designing the Programme:</p> <p>Internal documentation:</p> <ul style="list-style-type: none">i. Middlesex University (2014) <i>Middlesex University Regulations</i>. MUii. Middlesex University (2014) <i>Learning and Quality Enhancement Handbook</i>. MUiii. QAA Quality Code

21. Other information
<p>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.</p>

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Curriculum map for *BSc(Hons) Neuroscience*

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.

Programme learning outcomes

Knowledge and understanding		Skills	
A1	Normal and abnormal neuronal function	B1	Critically evaluate research evidence in the context of current theory or practice
A2	The mind and its processes	B2	Solve neurophysiological problems
A3	The principles of diagnosis and management of neurological disorders	B3	Appraise and synthesise information to gain new insights into aspects of neuroscience
A4	The importance of scientific research in the advancement of knowledge and to evidence-based practice	B4	Reflect on own learning to develop personally
A5	The skills required to monitor and assess brain and nerve functions	B5	Present information in the most effective format to communicate ideas clearly
A6	Neuroimaging techniques	B6	Design a research project
		B7	Perform a wide range of investigative techniques in accordance with health and safety guidelines
		B8	Communicate their ideas effectively to different audiences using a variety of media
		B9	Work both collaboratively and with an appreciation of skills required for leadership
		B10	Demonstrate an autonomous and reflective approach to lifelong learning
		B11	Formulate learning and career development plans
		B12	Use a range of information technologies
		B13	Demonstrate a high level of numeracy and problem-solving skills

BSc(Hons) Neuroscience

Programme outcomes																						
A 1	A 2	A 3	A 4	A 5	A 6		B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11	B 12	B 13			
6	6	6	6	6	6		6	6	6	6	6	6	6	6	6	6	6	6	6			

Module Title	Module Code by Level	Programme outcomes																						
		A1	A2	A3	A4	A5	A6		B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13			
Contemporary Neuroscience and Professional Development	BMS1414	x			x	x	x		x	x	x	x	x			x	x	x	x	x	x			
Introduction to Neurology	BMS1424	x		x		x			x		x		x		x						x	x		
Foundation Neuroscience	BMS1464	x		x		x			x		x		x									x		
Mind & Behaviour in Context	PSY1020		x			x			x				x		x						x			
Research Methods and Professional Practice	BMS2007				x				x		x		x	x		x	x	x	x	x	x			
Neuropharmacology	BMS2415	x		x					x		x		x								x	x		
Neurophysiology	BMS2955	x		x		x			x	x	x		x		x						x			
Brain, Body and Mind	PSY2006		x	x		x	x		x		x		x		x						x			
Placement for Employability	BMS3006				x				x	x	x		x		x	x	x	x	x	x	x			
Dissertation	BMS3336				x				x	x	x	x	x	x		x	x				x	x		
Applied Clinical Neurophysiology 1	BMS3906	x		x		x			x	x			x		x						x	x		
Applied Clinical Neurophysiology 2	BMS3956	x		x		x			x	x			x		x						x	x		
Clinical Neurology	BMS3496	x		x			x		x	x	x		x		x	x						x		
Negotiated Learning	BMS3766				x				x	x	x	x	x			x		x	x	x	x			
Neuropsychology: The healthy brain and what can go wrong with it	PSY3052		x						x				x			x								
Fundamentals of cognition: Human memory	PSY3036		x						x				x			x								