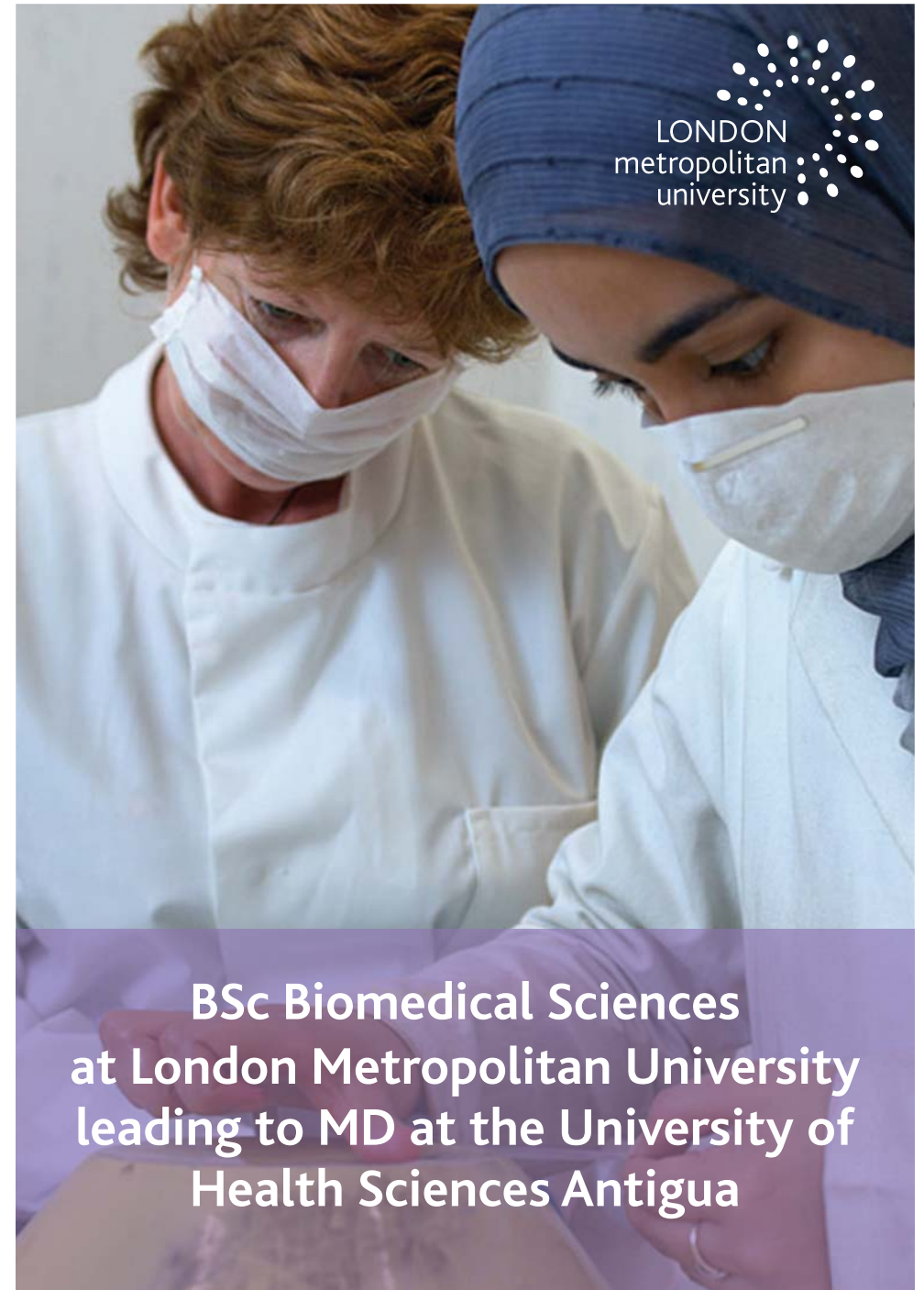


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**BSc Biomedical Sciences
at London Metropolitan University
leading to MD at the University of
Health Sciences Antigua**

London Metropolitan University – who are we?

London Metropolitan University is one of Britain's largest universities with over 37,000 students from more than 153 different countries and is committed to the delivery of academic excellence, vocational relevance and personal development. London Metropolitan University is a fully recognised state university in the United Kingdom (UK). It is recognised by Privy Council (www.privy-council.org.uk), and the Higher Education Funding Council for England (www.hefce.ac.uk).

The University is also accredited by the United States Middle States Commission on Higher Education (MSCHE).

The School of Human Sciences in the Faculty of Life Sciences brings together the University's health related provision and the essential scientific discipline which underpins such provision.

Research

The University works closely with the local community in tackling the major health inequalities that are inherent in the poorer parts of the inner city of London. The Institute of Brain Chemistry and Nutrition is pioneering work by the Mother and Child Clinic on Maternal Nutrition and its effect on birth weight and this has led to intervention strategies to help alleviate this problem. Other research areas are diseases in adulthood and membrane composition and cell function.

The School of Human Sciences in the Faculty of Life Sciences is also at the forefront of work on the assessment of body composition and has state-of-art facilities for this. The Weight Loss Clinic works with overweight and obese subjects providing lifestyle advice relating to exercise and diet with a view to reducing obesity.

The Science Centre

London Metropolitan University (London Met) has invested heavily in new facilities, including a £30 million Science Centre, which opened in November 2006. The Science Centre offers unparalleled facilities for teaching and research and also houses the 'Superlab', the largest teaching laboratory in Europe. The Superlab has 280 individual workstations, providing students with a cutting edge learning experience. All workstations are equipped with full computer and video facilities enabling students to develop scientific skills through interaction with teaching materials delivered via laboratory sessions, IT environments, problem-based and collaborative learning.

The facilities in the new Science Centre will provide students with the opportunity to develop understanding of the scientific basis of human activity by working with data that has unique immediacy and greater quality than is normally possible in university laboratories. For a virtual tour of the science centre, please see, www.londonmet.ac.uk/science



The University of Health Sciences Antigua – who are we?

UHSA is a privately endowed institution founded in 1982. UHSA is chartered by the Government of Antigua and Barbuda. The Dowhill campus, on which the University is located, is about 12 miles from the nation's capital, St John's. The campus is situated on fifty acres of land within the Historical National Park area of the English Harbour, Antigua, West Indies.



The School

In 1983 the School of Medicine at UHSA was listed in the World Directory of Medical Schools (AVICENNA Directories) published by the World Health Organisation (WHO) and this confers eligibility on the medical graduates of the University to take certifying examinations in various countries to practice medicine. UHSA graduates have a success rate of over 90% in passing the USMLE (United States Medical Licensing Examination), thus enabling these graduates to practice medicine in the USA. In addition, UHSA graduates also have a high success rate in the Medical Council of Canada Qualifying Examinations (MCCQE), Canadian Medical Residency Training/Assessment Examination and the United Kingdom Professional Linguistics Assessment Board (PLAB). The above examinations are required in order to practice in the respective countries in the approved way.

What we can offer you

Following agreement between the University of Health Sciences Antigua and London Metropolitan University we are offering a route leading to BSc Biomedical Sciences from London Metropolitan University and Doctor of Medicine (MD) from the University of Health Sciences Antigua (UHSA). You will register concurrently with London Metropolitan University on the Biomedical Sciences programme and the University of Health Sciences Antigua on the MD programme. On successful completion of the

BSc Biomedical Sciences in which credits are awarded towards the basic sciences portion of the medical curriculum by UHSA, you will further undertake two years of clinical rotations (clerkships) to complete the MD degree from UHSA.

Should you wish to terminate your studies at the end of the Biomedical Sciences degree, you will be immediately employable in hospital laboratories, but if you complete both qualifications, you will be uniquely qualified in both medicine and the diagnostic and analytical laboratory services which underpin the practice of medicine and have an even greater range of employment opportunities available to you.

Studying with us

To enable you to complete both the BSc and the MD, the curriculum of the two institutions is synchronized with students receiving instruction simultaneously from both institutions. Students will spend the first three years at London Metropolitan University culminating in the award of the BSc Biomedical Sciences degree.

Their studies will be supplemented via the specialized UHSA Distance Learning System. Students will also be required to attend two summer schools at UHSA at the end of the first and third year of study on the BSc Biomedical Sciences course.

A BSc in Biomedical Sciences will equip graduates for a laboratory-based career in Biosciences – in private or public health services, educational institutions and biotechnology industries which is growing world wide. The degree is accredited by the Institute of Biomedical Science (IBMS). The multi-million pound laboratory facilities at London Metropolitan University provide for the development of practical skills, and associated competencies appropriate to graduates in both biosciences and medicine.

Practising Medicine

By fulfilling the BSc Biomedical Sciences with London Metropolitan University and the MD degree at UHSA, you will be able to take the qualifying exams for the country in which you want to practice and begin your career as a medical doctor.



The BSc Biomedical Sciences course at London Metropolitan University

Biomedical Science plays a vital role in identifying disease, monitoring treatment and research into infectious disease and other pathologies. Core modules provide an understanding of the structure, functioning and analysis of biomolecules, cells, and tissues and body systems in health and disease. The course will provide you with a thorough understanding of pathological and non-pathological processes together with training in associated analytical and technical skills.

Year One

The first year of the course will provide an overview of key areas; eight modules (classes) will be studied and assessed at London Metropolitan University, as below. Students accepted on the route to the MD with UHSA will also have the opportunity to access online materials from UHSA which will further support the study of these areas:

- Cell Biology
- General Microbiology
- Data Analysis
- Professional Studies
- Molecular Biology and Genetics I
- General Biochemistry
- Human Structure and Function
- General Chemistry

At the end of the first academic year, students will attend a compulsory two-month Summer School at UHSA, where they will take the following courses and relevant practical classes:

- Gross Anatomy/Embryology
- Neurosciences

Year 2

This year expands on the studies of key topics linked to core pathology and students will again take the eight modules listed below supported by online materials provided by UHSA to supplement the lecture delivery activities at London Metropolitan University.

- Metabolic Chemistry
- Molecular and Cellular Pathology
- Microbial Physiology
- Bioethics
- Immunology
- Genetics II
- Haematology and Transfusion Science
- Project Preparation

Year 3

In this final year of the curriculum for the BSc Biomedical Sciences students will undertake a compulsory year long research project and study modules that extend the pathology theme and further develop analytical and problem solving skills. Students will take a number of core modules as below and can choose from a number of optional modules. Again, students accepted on the route to the MD with UHSA are supported by online materials provided by UHSA to supplement the lecture delivery activities at London Metropolitan University.

- Clinical Biochemistry
- Developmental Systems and Pathology
- Medical Microbiology
- Principles of Pharmacology

Suggested optional modules:

- Bio-analytical Techniques II

Additionally students also attend a compulsory two-month Summer School at UHSA where they will take the following modules plus relevant practical classes.

- Systemic Pathology
- Physical Diagnosis

UHSA MD Program – Clinical Curriculum

On successful completion of the BSc Biomedical Sciences course (minimum of a final 2:1 grade) and on successfully completing the Summer Schools at UHSA, you will then undertake two years of clinical rotations (clerkships) in hospitals in the USA, UK or Puerto Rico. UHSA has well-established links with excellent teaching hospitals in these countries.

In the first clinical year students will undertake 48 weeks of core clinical rotations in the areas of:

- Internal Medicine
- General Surgery
- Obstetrics and Gynaecology
- Paediatrics
- Psychiatry
- Family Medicine

This will form the foundation of the student's clinical educational framework, after which, students are then required to select and rotate for a further 30 weeks in sub-specialities of the core rotations. Students can select their clinical electives from the wide choice offered below.

Anaesthesiology	Cardiology	Clinical Psychology
Critical Care	Dermatology	Emergency Medicine
Family Medicine	Gastroenterology	Infectious Disease
Laboratory Medicine	Nephrology	Neurology
Ophthalmology	Orthopaedics	Otolaryngology
Pathology	Plastic Surgery	Podiatry
Radiology	Respirology	Urology

Examples of recent clinical rotation placements in the USA are: Harbour Hospital, Baltimore-Maryland; Memorial Medical Centre, New Mexico; Falmouth Hospital, Massachusetts; The University of Arizona College of Medicine Hospital; St Charles Mercy Hospital, Oregon-Ohio and Larkin Hospital Miami. In Puerto Rico, students have been undertaking clinical rotations at Hospital Santa Rosa, Guayama, Cristo Redentor Hospital, Guayama, San Pablo Hospital, Bayamon and the San Juan City Hospital, San Juan.

In the United Kingdom, UHSA students have undertaken clinical rotations at teaching hospitals of the University of Glasgow, University of Sheffield, University of Leicester, University College & Middlesex School of Medicine, University College of London; Eastbourne District General Hospital; Buckland Hospital, and Maidstone Hospital in Kent.

In Canada, UHSA students also have undertaken clinical rotations at the Greater Niagara Hospital, Ontario; St. Catharine's General/NHS, Ontario; Hotel Dieu Hospital, Ontario; Southlake Regional Healthcare Centre, Ontario; Foothills Medical Centre, Alberta; North York General Hospital, Ontario; Scarborough Hospital, Ontario; Toronto General Hospital, Ontario and Bathurst Steels Medical Centre, Ontario.

UHSA is constantly adding to its clinical sites, so as to provide more options for the students.

Once the clinical rotations have been successfully completed the student will be awarded a Doctor of Medicine (MD) degree from UHSA. See section overleaf about practising in countries other than the USA.



Costs

Tuition Fees

UK/EU Students

London Metropolitan University – Tuition fees for the first 3 years of the BSc Biomedical Sciences degree are £3,225 per year.

University of Health Sciences Antigua (UHSA) – Tuition fees for the MD program are £5,000 per year. (Subject to an annual inflation increase).

International (Non-EU) Students

London Metropolitan University – Tuition fees for the first 3 years of the BSc Biomedical Sciences degree are £8,800 per year.

University of Health Sciences Antigua (UHSA) – Tuition fees for the MD program are £5,000 per year. (Subject to an annual inflation increase).

Accommodation

Once applicants have been made an unconditional offer for the BSc Biomedical Sciences course they may apply for university accommodation with London Met, see www.londonmet.ac.uk/accommodation for details.



UHSA Summer School Budget

(For International and UK/EU students)

UHSA dormitories per month	£302
Private facilities per month	£504
Living expenses per month	£732 (Including transport, food and entertainment)
Return flight London-Antigua	£656-757

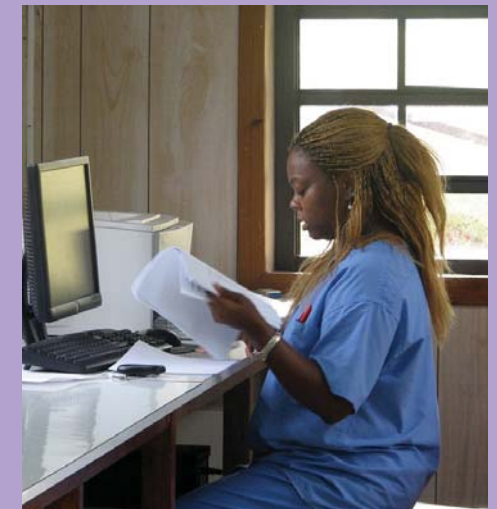
UHSA Budget for the Clinical Rotation Years

UHSA is well aware that expenses vary greatly depending on individual situations and spending habits, however the budget provided below gives the estimated cost for two years required for the completion of the clinical portion of the combined program.

Tuition and fees	£15,225 per year
Accommodation	£8,300 per year
Food @ £504/per month	£6,048 per year
Pocket money@ £252/per month	£3,024 per year
Insurance @ £504	£504 per year

Total **£33,101 per year**

For those graduating after their final clinical rotation year there is an additional Graduation Fee of £277 with return air transport costs to Antigua of approximately £750.



Entry Criteria for the BSc Biomedical Sciences at London Metropolitan University and MD Program at UHSA

Applicants must have a minimum of 300 UCAS points and must have a minimum B grade in Biology and Chemistry at A level, or equivalent. Applicants from the USA would need 3 passes in AP tests with a minimum of grade 4 overall and with a minimum of 5 in biology and chemistry, in addition to a minimum B+ average in their High School Diploma. Alternatively, students should have a minimum of 600 in the math and verbal sections of the SAT 1 plus a minimum of 650 points in SAT II in biology and chemistry.

Applicants from Canada generally will need a minimum of 70% overall for Grade 12 and a minimum of 75% in biology and chemistry.

Applicants from India would need to have an average of 70% in their year 12 exams and must have a minimum of 70% in both biology and chemistry.

For entry criteria for other countries and notes for guidance for applicants please email: medicine@londonmet.ac.uk

Applicants who do not have English as a first language will need to take a recognised English Language qualification such as IELTS and obtain a minimum of 6.0 overall with no less than 5.5 in any component, or equivalent. Additionally all successful students will be interviewed locally in order to assess the commitment, motivation, understanding, maturity, preparedness and aptitude to study and practice medicine in addition to a high level of intelligence and academic achievement.

In order to facilitate the interview process, applicants' contact details will be shared with University of Health Sciences Antigua (UHSA). Applicants may be interviewed in person or by telephone by staff from both universities.

Applicants who wish to pursue this course but do not have a background in biology and chemistry may apply for a science foundation year at London Met. Successful completion of this year with a minimum of 65% overall will enable students to progress to the Biomedical Sciences course. Subject to a satisfactory interview applicants will also be eligible for the route including the MD course at UHSA.



Accreditation and practicing in different countries

In Europe, and other parts of the world, colleges and universities including medical schools are recognised and accredited by Ministries of Education, and in essence by its governments.

UHSA is recognised and accredited by the Ministry of Education of the Government of Antigua and Barbuda where the University is located.

Inclusion in the World Directory of Medical Schools (Avicenna Directories) certifies that UHSA is recognised and accredited by its own national government as a bonafide medical school. Consequently UHSA students are eligible to take USMLE (USA), PLAB (UK), MCCQE (Canada) and the Canadian Medical Residency Training/Assessment Examination.

Upon passing any of the above examinations, the graduates will be able to obtain a license to practice medicine in their respective country.

Since UHSA is listed in the World Directory of Medical Schools (AVICENNA Directories) published by the World Health Organisation (WHO), graduates can practice in any part of the world including the USA, UK and Canada after passing the certifying examinations. However, individual countries have certain requirements that must be met before practicing.

Information regarding accreditation for specific countries is available at the UHSA's Dean's office.

How to apply

This course has two entry points in September and February. Applicants for September must apply through UCAS (www.ucas.com) enter course code B940 and campus location U. The deadline for starting in September is the end of June. Applicants for the February intake should apply directly to London Metropolitan University quoting BSc Biomedical Sciences (UHSA/MD Program) as the course choice.

You can download an application form from www.londonmet.ac.uk/directapp

Applicants who do not have a background in biology and chemistry can undertake the Foundation year in Science with London Metropolitan University, successful completion of which would allow students to progress to the BSc Biomedical Sciences. The Year 0 in Science starts in both September and February. If you are applying for September entry you need to apply through UCAS using the course code CF11 - if you are applying for entry in February, you can then apply directly to the University using course title Year 0 in Science indicating February entry on the application form.

