



UWI
ST. AUGUSTINE
CAMPUS

**FACULTY OF
MEDICAL SCIENCES**

2024/2025

POSTGRADUATE

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HOW TO USE THIS HANDBOOK

The Faculty Handbooks (also known as Faculty Booklets) are available on the Campus website in PDF format at <http://sta.uwi.edu/faculty-booklet-archive>. The Handbooks include:

- Relevant **Faculty Regulations** – e.g., Admission Criteria, Exemptions, Progression, GPA, Leave of Absence, etc.
- Relevant **University Regulations** including the Plagiarism Regulations and Declaration Forms
- Other Information on **Co-Curricular** courses, **Language** courses and **Support for Students** with physical and other disabilities or impairments.
- **Programme Descriptions and Course Listings** which include the list of courses to be pursued in each programme (degrees, diplomas, and certificates), sorted by level and semester; course credits and credits to be completed for each programme – majors, minors, and specials.
- **Course Descriptions** which may include details such as prerequisites and methods of assessment.

Students should note the following:

The Regulations and Syllabuses issued in the Faculty Handbooks should be read in conjunction with the following University Regulations:

- The Postgraduate Regulations and Syllabuses should be read in conjunction with the University Regulations contained on the [Postgraduate Admissions website, the PG GPA Regulations introduced in 2021, and the Board for Graduate Studies and Research Regulations for Graduate Certificates, Diplomas and Degrees \(with effect from August 2018\)](#) and any subsequent amendments thereof.

Progress through a programme of study at the University is governed by Faculty Regulations and University Regulations. Should there be a conflict between Faculty Regulations and University Regulations, University Regulations shall prevail, where appropriate.

ACADEMIC CALENDAR 2024/2025

Get important dates such as the beginning and end of each semester, matriculation, examinations, graduation and ELPT. Also take note of deadlines for the payment of fees, registration, and applications for overrides, leave of absence, admissions, and scholarships & bursaries.

To download the latest calendar, visit <https://sta.uwi.edu/registration/academiccalendar.asp>

LEGAL NOTICE – PROGRAMME & COURSES

1. Notwithstanding the contents of Faculty Handbooks, Course Outlines or any other course materials provided by the University, the University reserves the right at any time to altogether withdraw, alter or modify its programmes or courses and/or vary its modes or methods of teaching, delivery and assessment of its programmes or courses, as deemed necessary in the following circumstances:
 - (a) As a result of any changes imposed by national laws, legislation or governmental regulations or orders made from time to time.
 - (b) In response to the occurrence of a force majeure event, including but not limited to, war (whether declared or not), riots, civil disorder, epidemics, pandemics, quarantines, earthquakes, fire, explosions, storms, floods or other adverse weather conditions, strikes, lockouts or other industrial action, confiscation or any other action or authority by governmental or regulatory agencies or acts of God.
 - (c) In the event of an emergency where there is risk to life and property.
 - (d) Where the exigencies of the circumstances require such action to be taken by the University.
2. Whilst it is anticipated that teaching, delivery and assessment of the University's programmes and courses during Academic Year 2024/2025 will be conducted primarily in person, the University reserves the right to implement virtual/online/electronic modes and methods of teaching, delivery and assessment or hybrid teaching and learning, if deemed necessary due to public health regulations, governmental order or health and safety protocols associated with the COVID-19 pandemic and any other possible threats to public health and safety.

DISCLAIMER – PRIZES & AWARDS

In the case where Faculty/Student Prizes or Awards may be listed, the Faculty does not bind itself to award any or all of the listed prizes/awards contained herein or its stated value and reserves the right to modify or altogether remove certain prizes/awards as described in either or both the electronic and printed versions of the Faculty Handbook.

MESSAGE FROM THE DEAN

We, the staff members of the Faculty of Medical Sciences, take immense pleasure to welcome you as students to our great Faculty.

We, the staff members of the Faculty of Medical Sciences, are pleased to extend you a very warm welcome as postgraduate students joining our Faculty.

We wish to proudly inform you that the Faculty of Medical Sciences at The University of the West Indies (UWI), St. Augustine, has trained hundreds of thousands of postgraduate students who have reached great heights in their careers and lives as specialists in their respective fields.

As many of you may be aware, the Faculty of Medical Sciences is uniquely placed on the Campus, comprising many schools including the School of Medicine, Dentistry, Veterinary Medicine, Pharmacy, and Nursing, thus endorsing the value of the 'One-Health' concept. We encourage and promote the philosophy that all healthcare professionals must work together as a team for the betterment of all living beings contributing to the ecosystem of this planet.

In this era of artificial intelligence trying to dominate many walks of our lives, including the healthcare paradigm, we request that you, as mature postgraduate students, have a correct blend of applying technology and practical, 'softer' aspects of healthcare delivery. We take ethics and professionalism seriously across all the schools in the Faculty and wish every student to acquire such skills during their training.

Our Faculty has highly experienced academics, clinicians, researchers, administrative and technical support staff, librarians, IT personnel, and a variety of resources to turn every postgraduate student in the healthcare arena into a fine professional.

During your training, you must possess the qualities of inquisitiveness, self-esteem, and humility, which are paramount for your success.

We implore you to utilise all the resources to the fullest extent during your training period, qualify with flying colours, and go out and serve our communities with exceptional knowledge, ethics, and professionalism as a proud alumnus of the UWI.

Once again, welcome to the Faculty of Medical Sciences. We wish you the very best for the journey you are embarking on in the form of a professional university education.

Professor Hariharan Seetharaman
DEAN



ABOUT THE FACULTY OF MEDICAL SCIENCES – ST. AUGUSTINE

Welcome to the Faculty of Medical Sciences at St. Augustine, Trinidad & Tobago. We are situated at the Eric Williams Medical Sciences Complex, with offices at the Port-of-Spain, San Fernando and Sangre Grande General Hospitals. The Faculty comprises the Schools of Medicine, Dentistry, Veterinary Medicine, Pharmacy and Nursing.

The Faculty of Medical Sciences offers a choice of research-based, postgraduate degrees in the Schools of Medicine, Veterinary Medicine and Nursing, which will allow interested graduates to pursue research work in areas of interest such as anatomy, biochemistry, physiology, pharmacology, veterinary public health and epidemiology and advanced nursing. We also offer specialist training in most clinical specialties.

The Faculty of Medical Sciences is committed to the development of excellence in dental, medical and veterinary health research. While our research priorities are determined by local and regional needs, our perspective will remain international through the development of productive, research collaborations with renowned research institutions across the world. In so doing, the Faculty of Medical Sciences will bring developed, world technology to solve regional, health problems, as defined by regional governments and agencies. We are working closely with the Regional Health Authorities to ensure the relevance of our research and postgraduate training.

Over the last two decades, the dramatic changes, which have taken place in healthcare systems, have created many new and exciting roles for healthcare providers. The Faculty is well equipped with modern teaching and research laboratories, which facilitate practical classes and on-going research programmes. Computer-assisted, learning facilities have also been established. A well-stocked Medical Sciences Library is on site with a Students' Computer Laboratory providing access to internet and literature search facilities. Students of the Faculty also have access to the Veterinary, Dental and Medical Hospitals, which are maintained by the North Central Regional Health Authority.

The Republic of Trinidad and Tobago is the most southerly of the Caribbean islands and benefits from a strong, petroleum-based economy. We see a vast range of diseases common to both developed and developing countries. Our Faculty members are of the highest calibre, and ably guide the students through the understanding of health and disease.

You will find that Trinidad and Tobago is a truly cosmopolitan nation, with great, cultural diversity. We are proud to boast that all races and creeds live in harmony here, so that one's professional training is complemented by exposure to a unique nation and its peoples.

MISSION STATEMENT

To advance learning, create knowledge and foster innovation in Medical Sciences for the positive transformation of the Caribbean and the wider world.

STUDENT LIFE AND DEVELOPMENT DEPARTMENT (SLDD)

DIVISION OF STUDENT SERVICES AND DEVELOPMENT (DSSD)

The SLDD is the first and most important **STOP** for high quality academic support and personal development.

WHO CAN ACCESS THE SERVICES OF SLDD?

ANY student can access the services through self-referral or referrals by Faculties, Departments, friends, family, etc. SLDD caters to the needs of students who are Full-Time, Part-Time, Postgraduate, Undergraduate, Mature, International, Regional, Student Athlete and Students with Disabilities and Medical Conditions. We provide support to **ALL** students in the following areas:

GENERAL SUPPORT – ALL STUDENTS

- Peer-Pairing
- Referral to Counselling
- Access to a Safe Space for relaxing and restoration

ACADEMIC SUPPORT - ALL STUDENTS

- Time Management
- Examination Strategies
- Workload Management
- Study Skills - one on one sessions
- Educational Assessment/Screening – Lucid Adult Dyslexia Screening (LADS) & Learning and Study Strategies Inventory (LASSI)
- Peer Tutoring – one on one sessions

INTERNATIONAL AND REGIONAL STUDENT SUPPORT

- Assistance with Immigration matters – renewal of landing stamps
- Liaising with faculties and departments in The UWI and the Immigration Division regarding immigration matters

POSTGRADUATE AND MATURE STUDENT SUPPORT

- Opportunities for student employment such as peer tutoring, and special examination invigilation
- Liaising with faculties and departments on any postgraduate and mature students matters

DISABILITY SUPPORT/STUDENTS WITH MEDICAL CONDITIONS SUPPORT (TEMPORARY AND PERMANENT)

- Loans of aids and devices such as laptops, digital voice recorders, wheelchairs, walking canes and crutches
- Special accommodations in the classroom and for examination
- Liaison with faculties, departments, deans, heads of departments, and lecturers
- Special parking accommodations - Accessible Parking Permits
- Student Support Group
- Assistive Technology Lab at the Alma Jordan Library- special software (JAWS)

No student of The UWI will be discriminated against based on having special needs. Every effort is made to facilitate requests related to mobility, general academic support and examinations accommodation. Sharing needs early will enable us to better serve a student as a member of the Campus Community.

HOW DO I REGISTER AT SLDD?

- All students accessing the services must complete the registration form
- Collect a registration form from the SLDD office or download from <https://sta.uwi.edu/dssd/student-life-and-development> (SLDD website)
- Complete the registration form and submit to the office or via email to sta-sldd@sta.uwi.edu
- Schedule an appointment to meet with the Manager or a Student Support staff member
- An assessment of the student's needs will be conducted to determine the required service
- Students with disabilities and medical conditions must submit a medical report from a qualified medical professional to the Health Services Unit to be verified
- The verified document must be submitted to SLDD to be sent for approval by the Chair, Examination

FOR MORE INFORMATION OR ASSISTANCE, CONTACT:

Dr Jacqueline Huggins, Manager, Student Life and Development Department,

Email – sta-sldd@sta.uwi.edu or jacqueline.huggins@sta.uwi.edu

Address: Heart Ease Building, Wooding Drive, St. Augustine Campus

Tel: 662-2002 Ext. 83866, 83921, 83923, 84254, 84103 OR Direct line 645-7526

Hours: Monday to Friday | 8:30 am - 4:30 pm

SLDD Website: sta.uwi.edu/dssd/student-life-and-development

Facebook: www.facebook.com/UWI-Student-Life-Development-Department-SLDD-948337438614375

Never hesitate to contact the SLDD at any time!

CAMPUS RESEARCH ETHICS COMMITTEE

Students completing theses and research projects may have to submit their research protocols to the Campus Ethics Committee for review. Students and supervisors are asked to note the following:

- a) Researchers should familiarise themselves with the document entitled “Policies and Procedures on Research Ethics” before completing the application which is available on the website.
- b) The applications, consent forms, policies, guidelines and other documents are available on the following website: <https://sta.uwi.edu/research/campus-ethics> .
- c) Staff and students conducting research are reminded of the following:
Research requiring ethics committee approval
 - Ethics approval must be obtained for research involving humans (as group or single case) which samples of organs or other bodily material is being taken and where their health data is being taken or accessed (this includes film and audio tapings)
 - Research involving live animals
 - Expedited approvals for audits and online surveys (where personal and sensitive data is not being collected).
 - Observational single case studies may be exempted. However, the UWI informed consent form must be used.
- d) Documents for ethics review must be submitted electronically at least three (3) months prior to the commencement of the project. It should be noted that ethical approval must be sought before the project begins. The Committee will not retroactively approve any research which has started without ethics approval.
- e) The submission process is now electronic and paper applications will not be accepted.
- f) Applications submitted by students must list their supervisor as the Principal Investigator.
- g) The signatures (including electronic signatures) of the Principal Investigator and lead Co-Investigator are required.
- h) Only the following documents are to be submitted:
 - Application Form
 - Consent Form(s) (if required)
 - Data Collection Instrument(s) (if required) – this is limited to a maximum of three (3) attachments.
- i) All students would be required to be properly informed on research ethics methodologies, before applications for research are submitted.
- j) It is necessary that the Principal Investigator(s) is/are qualified to undertake the proposed research in the area being researched and their qualifications and experience must be indicated on the application form in the relevant sections.
- k) If a question is not applicable, the answer should state “Not Applicable”.
- l) The Consent Form must be completed for research involving experimental and invasive procedures and for collection of personal sensitive data from research subjects. It is generally not required for research involving simple surveys.
- m) For research that involves children, that is subjects under the age of eighteen (18) years, the Parental-Guardian Consent Form must be used.
- n) The Consent Form must be signed by the person conducting the informed consent process at the time of the interview and not before.
- o) The Ethics Committee Application forms must be completed in accordance with the guidelines provided.

You can contact the School of Graduate Studies and Research for further assistance:

Email: campusethics@sta.uwi.edu

Tel/Ext: (868)-662-2002 ext.82755

Website: <https://sta.uwi.edu/research/campus-ethics>

STAFF LISTING

OFFICE OF THE DEAN

DEAN

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SENIOR SECRETARY (Ag.)

Ms. Allana Howard

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DEPUTY DEAN - GRADUATE STUDIES & RESEARCH

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Secretary - Graduate Studies and Research

Ms. Liesel Norville

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PROGRAMME COORDINATORS

DEPARTMENT OF CLINICAL SURGICAL SCIENCES

DIPG/DM Emergency Medicine

Dr. Arvind Ramnarine

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Email: arvind.ramnarine@sta.uwi.edu

DM Anaesthesia and Intensive Care

Dr. Dale Ventour

Tel: 662-4030 or 645-3232 Ext. 2360

Email: dale.ventour@sta.uwi.edu

DM Obstetrics and Gynaecology

Dr. Sunil Persad

Tel: 662-6418

Email: sunil.persad@sta.uwi.edu

DM Orthopaedics

Dr. Trevor Seepaul

Tel: 657-2910 (SFGH)

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DM Ophthalmology

Dr. Desirée C. Murray

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DM Otorhinolaryngology

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DM Paediatric Surgery

Dr. Barbara Rampersad

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DM Urology

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DM General Surgery

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DM Neurosurgery

Dr. Robert Ramcharan

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Email: robert.ramcharan@sta.uwi.edu

DEPARTMENT OF CLINICAL MEDICAL SCIENCES

Postgraduate Diploma in the Management of HIV Infections

Dr. Stanley Giddings

Tel: 225-4673 Ext. 3909

Email: stanley.giddings@sta.uwi.edu

DM Internal Medicine

Dr. Sherry Sandy

Tel: POS Office: 623-4030 or EWMSC Office: 663-4332

Email: sherry.sandy@sta.uwi.edu

DM Paediatrics

Dr. Steve Koury

Tel: 225-4673 Ext. 3909

Email: steve.koury@sta.uwi.edu

DM Psychiatry

Professor Gerard Hutchinson

Tel: 225-4673 Ext. 2915

Email: psychiatry@sta.uwi.edu

DM Radiology

Dr. Fidel Rampersad

Tel: 225-4673 Ext. 2170

Email: fidel.rampersad@sta.uwi.edu

DM Medical Oncology

Dr. Curt Bodkyn

Tel: 645-3232 Ext. 2927

Email: curt.bodkyn@sta.uwi.edu

Fellowship in Cardiovascular Medicine

Tel: 663-4332

This programme is not on offer for 2024/2025

DEPARTMENT OF PRECLINICAL SCIENCES

MPhil/PhD Biochemistry

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MPhil/PhD Human Anatomy

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MPhil/PhD Human Physiology

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MPhil/PhD Molecular Genetics

Professor Christine Carrington

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MPhil/PhD Neuroscience

Dr. Farid Youssef

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DEPARTMENT OF PARACLINICAL SCIENCES

MPH – Masters in Public Health

Dr. Shalini Pooransingh

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Diploma/DM Family Medicine

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MSc/MPhil/PhD Medical Microbiology

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DM Medical Microbiology

Professor Patrick E. Akpaka

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MPhil/PhD Immunology

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MPhil/PhD Pharmacology

Professor Yuri Clement

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DM Anatomical Pathology

Dr. Srikanth Umakanthan

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Email: wayne.mohammed@sta.uwi.edu

DM Haematology and Blood Banking

Dr. Kenneth Charles

Tel: 225-4673

Email: kenneth.charles@sta.uwi.edu

MPhil/PhD Pathology (Sub-disciplines)

Tel: 225-4673 Ext. 2323

Email: STA-Head.paraclinical@sta.uwi.edu

SCHOOL OF VETERINARY MEDICINE

Director

Dr. Karla Georges

Tel: 225-4673 Ext: 4213; 645-4481

Email: STA-VetDirector@sta.uwi.edu

THE UWI SCHOOL OF NURSING*Director (Ag.)***Dr. Esther Daniel**

Tel: 225-1027

Email: STA-FMS_UWISoN@sta.uwi.edu**CENTRE FOR MEDICAL SCIENCES
EDUCATION (CMSE)**

The Centre for Medical Sciences Education (CMSE) is a physical and conceptual centre for harnessing and maximising the efficient and effective use of teaching, learning, technology, and educational research resources in the Faculty. The mission of the Centre is to provide academic, professional and technical resources towards promoting continuous improvement in curriculum planning, and the delivery of medical education programmes involving staff and students in the Faculty.

CMSE provides the five Schools of the Faculty with the following services: print and copy, videotaping, photography, medical illustration, graphic design and desktop publishing, technical assistance, website design, curriculum design, review and development, staff development workshops, assessments and evaluation, communication skills teaching, co-ordination of the Problem-Based Learning (PBL) and internal audit, monitoring and review.

*Coordinator (Ag.)/ Lecturer, Curriculum Development***Dr. Pradeep Kumar Sahu**

Tel: 225-4673 Ext. 5229

Email: pradeep.sahu@sta.uwi.edu*Professor, Measurement & Evaluation***Professor Bidyadhar Sa**

Tel: 225-4673 Ext. 5230

Email: bidyadhar.sa@sta.uwi.edu*Secretary (Ag.)***Ms. Siobhán Bedeau**

Tel: 225-4673 Ext. 5210

Email: siobhan.bedeau@sta.uwi.edu**MEDICAL SCIENCES LIBRARY**

Founded in 1989, the Medical Sciences Library comprises, three professional and 24 support staff. The Library provides services such as reference and research consultations, print, electronic and multimedia resources, internet access; document delivery; inter-library loans; photocopying, printing and scanning as well as instruction on electronic resources.

The Medical Sciences Library provides access to health sciences journals (72 titles), ejournals (124 titles), books (40,000) and ebooks; specialised health databases (44 including - Biomed Central; Micromedex (Drug Reference); Dental and Oral Sciences; Medline; Cumulative Index to Nursing and Allied Health Literature (CINAHL); UpToDate - Clinical Guidelines; Cochrane Database of Systematic Reviews; Caribbean Health Sciences Literature (MedCarib) - and two special collections: Pan American Health Organization and a West Indian Medical Collection. The physical space extends to seminar rooms; collaborative study spaces; a computer and a multipurpose lab, as well as a 24/7 service. The latter service operates outside of the library regular hours of operation and access is year-round. There is also a dedicated study space for Postgraduate students. After-hours consultation service is also provided to Postgraduate students.

OPENING HOURS**SEMESTER – LIBRARY**

Mondays to Fridays	8:30 am - 8:00 pm
Saturdays	8:30 am - 5:00 pm

SEMESTER – 24/7 FACILITY

Mondays to Fridays	8:00 pm - 6:00 am
Saturdays	5:00 pm - 6:00 am
Sundays	12:00 noon - 6:00 pm

***VACATION PERIODS – LIBRARY**

Mondays to Fridays	8:30 am - 5:00 pm
Saturdays	8:30 am - 12:30 pm

***VACATION PERIODS – 24/7 FACILITY**

Mondays to Fridays	5:00 pm - 10:00 pm
Saturdays	12:30 pm - 10:00 pm
Sundays	Closed

***Vacation hours will apply to the first week of each semester.**

HEAD:**Ms. Avril E. Reid**

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E-mail: avril.reid@sta.uwi.edu

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Ms. Avian Jaggernaut

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SECRETARY

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LIBRARIANS

Mrs. Niala Dwarika-Bhagat

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DEPARTMENT OF PRE-CLINICAL SCIENCES

HEAD

Dr. Farid Youssef

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Anatomy Subject Coordinator

Dr. Satheesha Subbhat

Secretary

Mrs. Lorraine Albelto

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Biochemistry Subject Coordinator

Dr. Jerome Foster

Clerical Assistant:

Ms. Kelly-Anne Bryan

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Physiology Subject Coordinator

Dr. Farid Youssef

Clerical Assistant

Mrs. Stephanie Oliver-Caesar

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ANATOMY UNIT

Senior Lecturer

Dr. Satheesha Subbhat

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Lecturer

Dr. Gangadhara Swamy

BSc (Rajiv Gandhi University), MSc (Manipal University),

PhD (NITTE)

Research Interests: Pathology and Treatment of

Parkinson's disease

BIOCHEMISTRY UNIT*Professor***Professor Christine Carrington**

BSc (Hons), PhD (Lond)

Research interests: Molecular genetics and virology (virus evolution, phylogenetics, emerging infectious disease, pathogen genomics esp. mosquito-borne viruses, rabies virus and other RNA viruses).

*Professor***Professor Shivananda Nayak**

MSc, PhD, FAGE, (Manipal), NRCC-CC, FACB (USA), FABM, FISBT (India)

Research interests: Type 2 diabetes (association of Biochemical parameters and risk of diabetes and cardiovascular diseases), wound healing (evaluation of wound healing activity of medicinal plant extract), hypoglycaemic activity of medicinal plants.

*Lecturer***Dr. Jerome Foster**

BSc, PhD (The UWI)

Research interests: Virus microevolution, phylogenetics, emerging infectious diseases and chronic non-communicable diseases.

PHYSIOLOGY UNIT*Senior Lecturer***Dr. Farid Youssef**

MB BS, PhD (The UWI) Research interests:

Endocannabinoids and novel neuroprotective mechanisms; neural mechanisms involved in decision-making; knowledge, attitudes and perceptions mental illness; ethics & professionalism.

*Lecturer***Dr. Junette Mohan**

BSc (Tor); MPhil (The UWI); PhD (The UWI)

Research interests: Vascular endothelial dysfunction in diabetes, sickle cell disease, eye disease, role of inflammation in vascular endothelial dysfunction, medical education.

*Lecturer***Dr. John Ramcharitar**

BSc (The UWI); MPhil (The UWI); PhD (UMD)

Research interest: Neurophysiology (using fish as model animals).

Professionalism Ethics and Communication in Health (PECH)*Lecturer***Dr. Averell Bethelmy**

MBBS, LLM (Ed)

Research interest: Medical ethics.

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MBBCh, DTM&H (UK), MPH (UK), CCST Public Health Medicine UK, FFPH (UK)

Research interests: Communicable disease control and health protection, quality in healthcare

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BSc (UWI), MSc (UWI) MSPH (LSHTM), DLSHTM, PhD (Monash)

Research interests: Mortality, health information, health services, and the elderly.

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Lecturer, Family Medicine

Dr. Raveed Khan

MBBS, MPH (Dist), DM (Family Medicine) (UWI)
 Research interests: Asthma, chronic non-communicable diseases, screening.
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Senior Lecturer, Family Medicine

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 Research interests: Evidence-based medicine, minor procedures, artificial intelligence.
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PATHOLOGY AND MICROBIOLOGY UNIT

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ANATOMICAL PATHOLOGY

Professor - Anatomical Pathology

Professor Chalapathi A.V. Rao

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 Research Interest Oncopathology; renal disease and wound healing.
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Lecturer (Anatomical Pathology)

Dr. Srikanth Umakanthan

MBBS, DM- Pathology (Manipal University), IFCAP (USA)
 Research interests: Immunohistochemical characterization of lung malignancies, infectious diseases, molecular genetics and oncopathology
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MICROBIOLOGY

Professor (Microbiology)

Professor Patrick E. Akpaka

MBBS (UNN), DM (UWI), FIDSA
 Research interests: Molecular characterization, diagnostics and epidemiology of multi-drug resistant pathogens; Antimicrobial resistance and nosocomial Infections; and control of infections of public health importance.
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Senior Lecturer (Microbiology)

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 Research interests: Molecular studies on antimicrobial resistance, infectious diseases.
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Lecturer (Microbiology)

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 Antimicrobial resistance, Infectious diseases.
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HAEMATOLOGY

Senior Lecturer, Haematology

Dr. Kenneth Charles

MBBS (UWI), FRCP, FRCPATH CCST (Haem) (UK) PhD (UK)
 Research Interest: Dichotomy between blood transfusion services in developed and developing countries

Lecturer, Haematology

Dr. Sehlule Vuma

Research interests: Haematologic malignancies in Trinidad and Tobago and Antiphospholipid syndrome.

CHEMICAL PATHOLOGY

Professor, Chemical Pathology

Professor Gershwin Davis

BSc (Hons), MB BS, (UWI), PhD (UWI), DABCC, SC (ASCP), MRO (AAMRO), FAACC, FCACB, CMDCP, CDP
 Research interests: Alzheimer's disease, biomarker risk factors, epidemiology.

Professor, Chemical Pathology

Professor Chidum Ezenwaka

BSc, MSc, MPhil, PhD (Ibadan)
 Research interests: diabetes and metabolism and biochemical risk factors for diabetic complications.

IMMUNOLOGY

Lecturer, Immunology

Dr. Carla-Maria Alexander

BSc (USA) PhD (USA)

Research interests: Autoimmunity, adaptive immunity, transplantation.

Senior Lecturer, Immunology

Dr. Angel Justiz-Vaillant

MD (Cuba) PhD (UWI)

Research interests: Vaccine technology, clinical immunology, microbiology, proteomics.

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PHARMACOLOGY UNIT

Lecturer & Unit Coordinator

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BSc, PhD (UWI)

Research interests: Herbal medicines, Hepatotoxicity of xenobiotics, evidence-based toxicology.

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Professor, Pharmacology

Professor Yuri Clement

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Research interest: Herbal Medicine, Response to drug treatment in Diabetes and Hypertension.

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Lecturer

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Senior Lecturer

Dr. Naveen Seecheran

MBBS, MSc, ABIM (Internal Medicine, Cardiology, Interventional Cardiology), FACC

CHILD HEALTH UNIT

Unit Coordinator and Lecturer

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Dr. Prithviraj Bahadhursingh

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Senior Lecturer

Dr. Curt Bodkyn

MBBS (UWI), MRCP (UK)

PSYCHIATRY UNIT

Professor & Unit Coordinator

Professor Gerard Hutchinson

MBBS (UWI), Dip (Psych), DM (Psych)

Research interests: Suicide, psychosis, ADHD.

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Professor

Professor Sandra Reid

MBBS, DM (UWI), MPH (John Hopkins)

Research interests: Gender, sexuality and HIV; public health consequences of addiction; alcohol harm reduction

RADIOLOGY UNIT

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Research interest: Vascular and general surgery.

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Senior Lecturer (Otorhinolaryngology)

Dr. Solaiman Juman

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Research interests: Paediatric ENT, epidemiology of ENT disease in Trinidad & Tobago.

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Senior Lecturer (Ophthalmology)

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Research interest: Glaucoma/Public Health for Eye Care

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Research interest: Ophthalmologic conditions.

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DEPARTMENT OF CLINICAL VETERINARY SCIENCES**HEAD****Dr. Anil Persad***Lecturer (Large Animal Medicine)*

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*Lecturer (Small Animal Medicine)***Dr. Jenelle Johnson**

DVM, MS

*Senior Lecturer (Small Animal Surgery)***Dr. Nagarajan Lakshmanan**

BVSc, MVSc, Phd

*Lecturer (Anesthesiology)***Dr. Curtis Legall**

DVM

*Lecturer (Theriogenology)***Dr. Michael Morris**

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*Lecturer (Avian and Exotic Medicine)***Dr. Shayne Ramsubeik**

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Dr. Jonathan White

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Dr. Gillian Williams

DVM

Assistant Lecturer (Small Animal Surgery)

Dr. Tennille Auguste

DVM, MS

Assistant Lecturer (Large Animal Medicine)

Dr. Marc Driscoll,

BVM, MSc

Assistant Lecturer (Small Animal Medicine/
Surgery/Companion Animals)

Dr Ansarah Hosein

DVM, MVSc

Assistant Lecturer (Equine Medicine)

Dr. Phillip Martin

DVM

Assistant Lecturer (Small Animal Surgery)

Dr. Sabrina Thomas

DVM, MSc

Lecturer (Small Animal Surgery)

Dr. Natasha Mootoo

DVM

THE UWI SCHOOL OF NURSING

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Lecturer

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POSTGRADUATE PROGRAMMES

SCHOOL/DEPARTMENT	PROGRAMMES OFFERED
SCHOOL OF MEDICINE – Department of Preclinical Sciences	MPhil/PhD Biochemistry MPhil/PhD Human Anatomy MPhil/PhD Human Physiology MPhil/PhD Molecular Genetics MPhil/PhD Neuroscience
SCHOOL OF MEDICINE – Department of Paraclinical Sciences	DM Anatomical Pathology DM Family Medicine DM Haematology and Blood Banking DM Medical Microbiology MPhil/PhD Community Health MPhil/PhD Medical Microbiology MPhil/PhD Pharmacology MPhil/PhD Pathology (with sub-disciplines in: Anatomical Pathology, Chemical Pathology, Haematology, Immunology) MSc Medical Microbiology MSc Public Health (MPH) Dip. Family Medicine Dip. Medical Microbiology
SCHOOL OF MEDICINE – Department of Clinical Medical Sciences	DM General Internal Medicine DM Medical Oncology DM Paediatrics DM Psychiatry DM Radiology Fellowship in Cardiovascular Medicine (<i>Programme is not on offer for 2024/2025</i>) MSc Palliative Care (<i>Programme is not on offer for 2024/2025</i>) Dip. Management of HIV Infections (<i>Programme is not on offer for 2024/2025</i>)
SCHOOL OF MEDICINE – Department of Clinical Surgical Sciences	DM Anaesthesia and Intensive Care DM Emergency Medicine DM General Surgery DM Neurosurgery DM Obstetrics & Gynaecology DM Ophthalmology DM Orthopaedics DM Otorhinolaryngology (ORL) DM Paediatric Surgery DM Urology Fellowship in Thoracic Surgery Dip. Emergency Medicine
SCHOOL OF VETERINARY MEDICINE	MPhil/PhD Veterinary Anatomy MPhil/PhD Veterinary Clinical Medicine MPhil/PhD Veterinary Microbiology MPhil/PhD Veterinary Parasitology MPhil/PhD Veterinary Pathology MPhil/PhD Veterinary Physiology MPhil/PhD Veterinary Public Health and Epidemiology
UWI SCHOOL OF NURSING	Advanced Nursing (MSN)

FACULTY REGULATIONS

These regulations are to be read in conjunction with [Regulations for Postgraduate Degrees](#), [The Manual of Procedures for Graduate Diplomas and Degrees](#), the [Graduate Studies Guide for Students and Supervisors](#) and the [Thesis Guide](#).

(For further information, please visit: <http://sta.uwi.edu/admissions/postgrad/downloads.asp>.)

In areas where the Faculty regulations are silent, the rules and regulations of the University in the aforementioned documents must be followed.

Additional Requirements for Admission

QUALIFYING EXAMINATIONS

When an applicant's undergraduate qualifications, for any postgraduate programme, are weak the Board may require the candidate to pursue qualifying courses and write Qualifying Examinations.

Heads of Departments should set out the qualifying courses recommended on the application form, which must be approved by the Campus Committee.

Qualifying courses must be extensive enough to remedy weaknesses in an applicant's academic record and to prepare the applicant for research work in the discipline.

The qualifying courses and the assessment procedure must be provided to the Campus Registrar. The Campus Registrar will supply this information to the applicant in the letter of admission.

A candidate for a Qualifying Examination will be registered as a qualifying student and for the individual courses. Such candidates may not register for a degree until such examinations have been passed.

The administration of the examination is the responsibility of the Campus Registrar.

Heads of Departments must ensure that the signed mark sheets are sent to the Chairman of the Campus Committee.

The results of all Qualifying Examinations shall be communicated to the candidate in writing.

Requirements for Completion of Degrees

DEPARTMENTAL EXAMINATIONS

Candidates deemed acceptable for admission to graduate diploma and degree programmes but deficient in the knowledge of some aspects of the field to be pursued or in statistics and research methodology, may be required to pursue courses from the undergraduate or graduate programmes or to follow a reading programme. MPhil and PhD candidates in the Departments of Preclinical Sciences and Paraclinical Sciences, and the School for Veterinary Medicine are also required to take a course in Scientific Presentation and Critique which is also recommended for all research degree candidates. Candidates must pass the appropriate examinations before being allowed to write examinations for the degree or to submit any thesis, research paper, short dissertation or project report.

The procedures for the Departmental Examinations shall be the same as for Qualifying Examinations.

MPhil/PhD

Candidates shall register for the MPhil degree in the first instance, but a candidate may have his/her registration upgraded to a PhD degree, if in the opinion of the supervisor/s and of the Faculty Sub-Committee for Higher Degrees his/her MPhil thesis research work qualifies the candidate for a PhD registration.

In addition to completing departmental examination prescribed, MPhil candidates are expected to give two seminars, one in the middle of the course and the other at the end of the course before final submission of his thesis to the University. PhD candidates are expected to give three such seminars. These seminars will be judged by a panel of at least two examiners drawn from the same Faculty.

Candidates are advised that acceptance into MPhil and PhD programmes is dependent on the availability of suitable supervisors, research projects and available facilities at the time of application considerations.

Doctor of Medicine (DM) Specialist Degree

Applicants to the Doctor of Medicine (DM) programmes are required to hold a medical degree with eligibility for registration in the country of study. The University's Regulations for Graduate Diplomas and Degrees apply to DM students, but there are also specific regulations governing the DM programme in each Specialty, e.g. All applicants must have a posting at a recognised hospital in the country of study.

Taught Graduate Courses for MPhil and PhD Students

According to University regulations, candidates who are accepted into the MPhil programme will be required to register for taught graduate courses amounting to a minimum of 6 credits. Candidates gaining direct entry into the PhD programme are required to register for a minimum of 9 credits. Such candidates must pass all taught graduate courses before proceeding to their research project. In the Faculty of Medical Sciences these courses will normally include Biostatistics and Data Analysis for Health Sciences (MEDC 6925), Research Methods for Health Sciences (MEDC 6924) and Scientific Presentation and Critique (MEDC 7041 for MPhil candidates and MEDC 8041 for candidates pursuing a PhD Degree).

Students, who enter either the MPhil or PhD degree, holding a taught Master's degree or Postgraduate Diploma, may be granted exemption from the course requirements of the research degree. However, such students may be asked, by the Department in which they are registering and with the approval of the Campus Committee, to take additional course credits, if such courses provide a specific knowledge-base or skill required for the proposed research degree.

Students who upgrade from the MPhil to the PhD, will be allowed to have their course credits added to the course requirements of the PhD.

Supervision

SUPERVISOR

On the acceptance of an MPhil or PhD candidate, the Department will nominate a supervisor and where necessary joint or co-supervisors for appointment by the Campus Committee.

The Chief Supervisor must hold a graduate degree of the same or higher level as the degree being supervised.

The designation 'Joint Supervisor' should be used in cases where University staff members are considered equally responsible to the Board for the supervision of the candidate, while the designation 'Co-Supervisor' should be applied to persons from outside the University who are assisting in the supervision of the candidate.

A topic which crosses the boundaries of Departments or Faculties will require the appointment of more than one Supervisor and consultation with those competent to jointly supervise such a topic should take place before the topic and the names of Supervisors are sent to the Board.

In the event of a candidate wishing to do a research degree which is not readily identifiable with a particular Faculty or Department, the application of that candidate will be referred by the Campus Office for Graduate Studies & Research to the Dean of the School for Graduate Studies & Research, who, in consultation with the Campus Coordinator, will seek to ascertain whether it is feasible to empanel a Committee of Supervisors and whether there are adequate facilities available to support the proposed research, in order to determine whether the application should be approved. If it is determined that the application should be approved, the Dean will then return the application to the Campus Office for Graduate Studies & Research.

ADVISORY COMMITTEE AND RESPONSIBILITIES OF THE ADVISORY COMMITTEE

By the end of the first semester of registration an Advisory Committee will be assigned to each student reading for an MPhil or PhD degrees. The committee will be composed of three persons including the Supervisor. The Committee may include no more than one person from outside the University.

General Examination Regulations

All examinations, whether by thesis or by written papers, are conducted on behalf of the Campus Registrar, who is responsible for setting and publishing the dates for each examination in consultation with Departments concerned, and for informing candidates of such dates.

Examination timetables should be published at least one month before the series of examinations begin. Notification of oral defence of a thesis should be provided at least two weeks before the examinations.

Candidates must submit theses, research papers and project reports for examination to the Campus Office for Graduate Studies and Research.

The transmission of theses and other examination papers to and from examiners is the responsibility of the Campus Registrar.

It is essential that graduate research students and their Supervisors have a shared set of expectations about all aspects of supervision, time frame for project execution, important milestones and the overall manner in which the research will be executed. The ground rules must be set early and the mutually agreed expectations made explicit. Graduate students must seek clarity from their Supervisors early on with respect to:

- Supervisor availability, both for routine and non-routine contact;
- The provision of feedback and advice;
- The timelines for such advice.

Similarly, Supervisors must be explicit with their students about:

- The need for regular meetings;
- The benefits of graduate level courses;
- The need for mastery of methodological, writing and speaking skills;
- The benefits of seminar and conference presentations;
- The importance of publication;
- The necessity for completion within the time limits.

Supervisors, the Advisory Committee and research students must be very clear about:

- The objectives and scope of the research project;
- The financial, physical, human and intellectual resources available for executing the research project.

The above are frequently the most difficult areas for the Supervisor and student to agree upon, but must be achieved through dialogue and reason early in the student's registration period in the University.

Graduate research students must be aware that there is no substitute to consistent, carefully planned, intelligent work in the pursuit of research excellence. Graduate students must show a commitment to the agreed objectives being pursued and must be supported at every step by their Supervisor. Graduate students must also be encouraged by their Supervisors to show independence of thought and action and to develop into first-rate professionals themselves. They should be familiar with the rules and regulations of the University, work within deadlines and communicate regularly with their Supervisor and Advisory Committee members.

The main responsibilities of the Graduate Research Student are to:

- i. Keep the schedule of meetings agreed to with the Supervisor(s) and/or Advisory Committee.
- ii. Take the initiative in raising with the Supervisor, problems or difficulties, however, elementary they may seem.
- iii. Seek guidance and comment on the research programme.
- iv. Accept and act on advice given by the Supervisor, unless the student, after careful consideration and discussion with the Supervisor, and for good reasons, decides otherwise.
- v. Maintain good progress in one's research in accordance with the schedule agreed to with the Supervisor.
- vi. Assist the Supervisor and the Advisory Committee in the completion of the semester's progress report.
- vii. Pass creditably and at the first attempt any Departmental or Qualifying courses which may have been prescribed.
- viii. Give, and participate in, Graduate Research Seminars and other scholarly activities.
- ix. Make representation to the Head of Department if an effective working relationship is not established with the Supervisor or any member of the Advisory Committee or if, for reasons beyond the student's control, the work is not proceeding satisfactory. If the Supervisor is also the Head of Department, making such representation to the Dean of the Faculty and then to the Chairman of the Campus Committee, or with any member of the Campus Committee for Graduate Studies and Research.
- x. Present written material as required by the Supervisor in sufficient time to allow for comments and discussion before proceeding to the next stage; for example, in the preparation of a thesis or project report.
- xi. Take responsibility for the final presentation of the thesis or project report in terms of writing, style, grammar, spelling, references, end/footnotes, and bibliography.

- xii. Submit a thesis, project report or dissertation within the time limits set by the University.
- xiii. Familiarise himself/herself with the rules and regulations of the University, particularly the 'General Regulations for Postgraduate Degrees' and it's 'Policy on Research Ethics' for example.

IMPLEMENTATION OF THE POSTGRADUATE GPA SYSTEM

Information for both **NEW** and **CONTINUING** students

First published August 2021. Updated October 2021.

As part of continued efforts to align the standards of The UWI more closely with international norms and best practice, a Grade Point Average (GPA) system will be introduced with effect from the 2021/2022 academic year.

Will the new PG GPA apply to all postgraduate students and programmes?

No. It applies **ONLY** to students who were admitted and commenced **TAUGHT** postgraduate programmes (see exclusions below) **in or after the 2021/2022 academic year**, referred to below as “New (GPA) Students”. Taught postgraduate programmes refer to postgraduate certificates and diplomas, masters and professional doctorates, with some exclusions (see below).

It does **NOT** apply to **ANY** students admitted to postgraduate programmes (taught or research) **prior to the 2021/2022 academic year**, referred to below as “Continuing (non-GPA) Students”.

*Please remember that each student is bound by the regulations in force **on the date of admission to their programme**, as stated in their Faculty’s Regulations Handbook published in that year. To find your applicable handbook, visit sta.uwi.edu/faculty-booklet-archive.*

Excluded Programmes

The new PG GPA system does **NOT** apply to students pursuing the following:

- i. Research degrees (MPhil and PhD degrees) – all campuses
- ii. Doctor of Medicine (DM) programme – all campuses
- iii. Diploma in Family Medicine and Diploma in Emergency Medicine (DM) – all campuses
- iv. Master of Fine Arts (MFA) – St. Augustine Campus

Exemptions & Variations

Exemption/variations within the application of the new PG GPA system will be applied to the following areas and programmes in the Faculty of Humanities and Education:

- i. The Master’s in Fine Arts (MFA) in Creative Writing – **Exemption**
- ii. The MA Spanish (Research Paper – SPAN 6009) – **Variation**
- iii. The Diploma in Education (Practicum Paper – EDTP 5002) – **Variation**
- iv. The Master’s in Education – **Variation**

How will Continuing (non-GPA) Students be affected?

Continuing students at the St. Augustine Campus need to be aware of the introduction of new Course Registration Numbers (CRN) to be used by new students only (see Changes to the Registration Process below). Otherwise, there are no changes for continuing students.

How will New (GPA) Students be affected?

- GPA is a representation of student performance on transcripts.
- Whether you pass a course or not, the quality points earned still count towards your GPA, meaning that all your efforts are considered.
- Quality points are earned even if students do not reach the threshold of a pass with coursework and/or final exam.
- If a student fails a single course twice, an automatic Required to Withdraw (RTW) will no longer apply.
- A student is not required to earn a ‘Distinction’ for their research projects in order to receive an overall ‘Distinction’.
- An additional award category of ‘Merit’ has been introduced along with ‘Pass’ and ‘Distinction’ (see Award of Degrees below).
- It allows more efficient performance tracking, for both students and faculty.
- It provides a measurement of academic performance that makes for easy comparison by other international universities for the purposes of transfer and admission.

What does the PG GPA look like?

The introduction of the PG GPA follows the successful introduction of the GPA system at the undergraduate student level in 2003/2004. The grade bands for the PG GPA system are almost identical to those for the undergraduate GPA, except for the introduction of a new band – FCW/FWE, which is described below.

GRADE	Grade Point	% Range	Grade Definition	Grade Descriptor
A+	4.30	90 - 100	Exceptional	Demonstrates exceptional performance and achievement in all aspects of the course. Exceptional application of theoretical and technical knowledge that demonstrates achievement of the learning outcomes. Goes beyond the material in the course and displays exceptional aptitude in solving complex issues identified. Achieves the highest level of critical, compelling, coherent and concise argument or solutions within the course.
A	4.00	80 - 89	Outstanding	Demonstrates outstanding integration of a full range of appropriate principles, theories, evidence and techniques. Displays innovative and/or insightful responses. Goes beyond the material with outstanding conceptualisation which is original, innovative and/or insightful. Applies outstanding critical thinking skills.
A-	3.70	75 - 79	Excellent	Demonstrates excellent breadth of knowledge, skills and competencies and presents these in appropriate forms using a wide range of resources. Demonstrates excellent evidence of original thought, strong analytical and critical abilities; excellent organisational, rhetorical and presentational skills.
B+	3.30	70 - 74	Very Good	Demonstrates evidence of very good critical and analytical thinking in most aspects of the course. Very good knowledge that is comprehensive, accurate and relevant. Very good insight into the material and very good use of a range of appropriate resources. Consistently applies very good theoretical and technical knowledge to achieve the desired learning outcomes.
B	3.00	65 - 69	Good	Demonstrates good knowledge, rhetorical and organisational skills. Good insight into the material and a good use of a range of appropriate resources. Good integration of a range of principles, techniques, theories and evidence.
B-	2.70	60 - 64	Satisfactory	Displays satisfactory evidence of the application of theoretical and technical knowledge to achieve the desired learning outcomes. Demonstrates sound organisational and rhetorical skills.
C+	2.30	55 - 59	Fair	Demonstrates fair breadth and depth of knowledge of main components of the subject. Fair evidence of being able to assemble some of the appropriate principles, theories, evidence and techniques and to apply some critical thinking.
C	2.00	50 - 54	Acceptable	Demonstrates acceptable application of theoretical and technical knowledge to achieve the minimum learning outcomes required in the course. Displays acceptable evidence of critical thinking and the ability to link theory to application.

FCW/FWE	1.70	40 - 49		Fail Exam/Fail Coursework
F1	1.70	40 - 49	Unsatisfactory	Demonstrates unsatisfactory application of theoretical and technical knowledge and understanding of the subject. Displays unsatisfactory ability to put theory into practice; weak theoretical and reflective insight. Unsatisfactory critical thinking, organisational and rhetorical skills.
F2	1.30	30 - 39	Weak	Weak overall performance with very limited knowledge and understanding of the subject. Little evidence of theoretical and reflective insights. Weak organisational and rhetorical skills.
F3	0.00	0 - 29	Poor	Overall poor or minimal evidence of knowledge and understanding of the subject. Displays little ability to put theory into practice; lacks theoretical and reflective insights. Incomplete breadth and depth of knowledge on substantive elements of the subject. Little or no evidence of critical engagement with the material. Responses are affected by irrelevant sources of information, poor organisational and rhetorical skills.

Changes to the Registration Process

As the GPA system is phased in, we will have two categories of students (new GPA and continuing/legacy (non-GPA) registering for the same courses. The difference will be reflected in the course registration number (CRN) for each course.

When registering for courses, you will see two sets of CRN codes – one for continuing (non-GPA) students, and another for new students registering under the GPA system. All other course information is the same. Only the CRNs are different.

Please pay careful attention and use the codes that correspond with your status as either a new or continuing student. The Banner registration system has been set up to deal with this duality, and once grades are input via the Banner Software, GPA is calculated automatically.

For more on the registration process and to see the updated CRN codes and instructions, download the [Online Registration Guide](#).

Award of Degrees

New students entering participating taught programmes in the 2021/2022 academic year as detailed above will be assessed and awarded degrees based on the Postgraduate GPA grading scale as follows:

GPA	CATEGORY
≥3.70	Distinction
3.30 – 3.69	Merit
2.00 – 3.29	Pass
< 2.00	Fail

Please note that

- the award of degree is based on the overall programme GPA.
- research projects will be considered similarly to other courses, so for a student who does not earn a 'Distinction' in their research project, it is still possible to be awarded a 'Distinction' in their overall programme once their programme GPA is ≥3.70.
- if a student fails or repeats a course, they will still qualify for a 'Distinction' if their overall programme GPA is ≥3.70.
- [special requirements apply](#) for the award of 'High Commendation' to professional doctorates (see regulation 14).

Continuing students and new students entering **programmes that are currently excluded** will be assessed and awarded according to the non-GPA systems included in this booklet for students' convenience.

Where can I get help or find out more?

- Visit www.uwi.edu/postgradgpa to learn more and find answers to frequently asked questions about the postgraduate GPA system.
- To see the full regulations governing the PG GPA, download the [GPA Regulations for Graduate Certificates, Diplomas, Taught Masters and Professional Doctorate Programmes](#).
- For answers to specific questions, contact the [Office for Graduate Studies & Research online](#).

UNIVERSITY REGULATIONS ON PLAGIARISM

Application of these Regulations

1. These Regulations apply to the presentation of work by a student for evaluation, whether or not for credit, but do not apply to invigilated written examinations.

Definition of plagiarism

2. In these Regulations,
 - a. "plagiarism" means the unacknowledged and unjustified use of the words, ideas or creations of another, including unjustified unacknowledged quotation and unjustified unattributed borrowing;
 - b. "Level 1 plagiarism" means plagiarism which does not meet the definition of Level 2 plagiarism;
 - c. "Level 2 plagiarism" means plagiarism undertaken with the intention of passing off as original work by the plagiariser work done by another person or persons.
3. What may otherwise meet the definition of plagiarism may be justified for the purposes of Regulation 2 where the particular unacknowledged use of the words, ideas and creations of another is by the standards of the relevant academic discipline a function of part or all of the object of the work for evaluation whether or not for credit, including without limitation:
 - a. The unacknowledged use is required for conformity with presentation standards;
 - b. The task set or undertaken requires producing a result by teamwork for joint credit regardless of the level of individual contribution;
 - c. The task set or undertaken requires the use of an artificial language, such as is the case with computer programming, where the use of unoriginal verbal formulae is essential.
4. The fact that a user enjoys the right of use of certain words, ideas and creations as a matter of intellectual property, does not justify their unacknowledged use under Regulations 2 and 3.

Other definitions

5. In these Regulations, "BGSR Regulations" means the University of the West Indies Regulations for Graduate Diplomas and Degrees; "Campus Co-ordinator" means the Campus Co-ordinator for Graduate Studies and Research.

Evidence of plagiarism

6. In order to constitute evidence of plagiarism under these Regulations, there must be identified as a minimum the passage or passages in the student's work which is/are considered to have been plagiarised and the passage or passages from which the passages in the student's work are considered to have been derived.

Student Certification

7. When a student submits for examination prepared work under Regulation 1, the student shall sign a statement, in such form as the Board of Graduate Studies and Research may prescribe, that the work submitted is free of plagiarism including unattributed unjustified quotation or paraphrase. The student may utilise electronic vetting to facilitate the assessment and certification. The results of the electronic vetting shall be provided to the Supervisor by the student when the work is submitted to the Supervisor for approval to submit for examination.
8. Quotation or paraphrase is attributed for the purpose of Regulation 7 if the writer has indicated that the work is not the writer's own, even if the source is not identified.
9. Absence of certification does not prohibit the University from proceeding with a charge of plagiarism.

Electronic Vetting for Plagiarism by the University

10. The Campus Coordinator may authorise or direct the Faculty Office, or other authorized body on behalf of the Campus Committee, that the work submitted under Regulation 7 be subjected to further electronic scrutiny in order to verify its freedom from plagiarism before being submitted to the Examiners. The results of the electronic vetting shall be submitted to the Campus Coordinator, the Dean and the Head of Department, and shall be considered in determining whether the University proceeds with submission of the work to the Examiners. The results of such electronic vetting although capable, where the requirements of Regulation 6 are satisfied, of constituting evidence under these Regulations, are not thereby conclusive of any question as to whether or not plagiarism exists.
11. Where suspected plagiarism is detected, whether through the procedures outlined in Regulation 10, or whether subsequently during the course of examination, the person(s) detecting the suspected plagiarism, whether the Dean, Head of Department or Examiner, shall:
 - a. where there is suspected evidence of Level 1 plagiarism in work which does not constitute a thesis or major project report (defined as the report comprising 25% or more of the total credits for the programme), refer the matter to the Examiners for their consideration as a charge of Level 1 plagiarism under Regulation 12; or
 - b. where there is suspected evidence of Level 1 plagiarism in a thesis or major project report, refer the matter to the Campus Coordinator as a charge of Level 1 plagiarism under Regulation 13; or
 - c. where there is suspected evidence of Level 2 plagiarism, refer the matter to the Campus Coordinator as a charge of Level 2 plagiarism under Regulation 19.

Level 1 Plagiarism in Work which does not constitute a Thesis or Major Project Report

12. In work submitted for examination which does not constitute a thesis or major project report under the University Regulations for Graduate Degree and Diplomas, and where the Examiners are satisfied that Level 1 plagiarism has been committed, they shall levy a penalty for the Level 1 plagiarism charged in the form of a reduction in the marks which would have otherwise been awarded. The First Examiner must inform the Campus Registrar of the penalty levied and of the Page 4 of 8 evidence of plagiarism. When the normal examination process is complete, the Campus Registrar must communicate this information to the student.

Level 1 Plagiarism in Theses and Major Project Reports

13. In the case of theses and major project reports, evidence of Level 1 plagiarism must be reported to the Campus Co-ordinator to support a charge of Level 1 plagiarism by the Dean, the Head of Department or an Examiner, where the person making the report considers that Level 1 plagiarism has been committed. Such a report and charge may be made regardless of the outcome of any scrutiny under Regulation 10.
14. If the Campus Co-ordinator considers that Level 1 plagiarism has been committed as charged, the Campus Co-ordinator shall return the submitted work to the student for revision and resubmission within a period determined by the Campus Coordinator but which may not exceed one year. The outcome and the penalty levied shall be reported to the Board for Graduate Studies and Research and the University Registrar. The University Registrar shall inform the student of the outcome of the assessment and the penalty levied.

Level 1 Plagiarism: Appeals

15. In the case of work which is neither a thesis nor a major project report, a student may appeal against the finding of plagiarism or the penalty levied under Regulation 12 to the Head of Department or, where the Head of Department is the First Examiner who has levied the penalty, to the Dean. Where the same person discharges both the functions of Dean and Head of Department and is also the First Examiner who has levied the penalty, the appeal is to the Campus Coordinator.
16. In the case of theses and major project reports, the student may appeal to the Board for Graduate Studies and Research from a decision of the Campus Coordinator under Regulation 14.
17. The Board for Graduate Studies and Research, the Campus Co-ordinator, the Dean or the Head of Department, as the case may be, hearing the appeal, in a Level 1 plagiarism case, may hear the appeal by correspondence. In the case where the Board or person hearing the appeal is not satisfied that there has been plagiarism, or considers that the penalty levied was excessive, they may allow the appeal or remit or reduce the penalty accordingly.

18. The Board for Graduate Studies and Research, Campus Co-ordinator, Dean or Head of Department, hearing the appeal, as the case may be, shall report the Page 5 of 8 outcome of the appeal to the Campus Registrar, who shall advise the student accordingly.

Level 2 Plagiarism

19. When a Campus Co-ordinator receives a report of suspected Level 2 plagiarism under Regulation 11c, whether the evidence is in a thesis, a major project report or in work which does not constitute either a thesis or major project report, the Campus Co-ordinator may either:
- where not concurring with the identification of evidence of Level 2 plagiarism, communicate with the person(s) reporting the suspected plagiarism, whether the Dean, Head of Department or Examiner, declining to proceed further in relation to the Level 2 proceedings, and shall in addition :
 - indicate that the decision is intended to preclude the invocation of the procedures for Level 1 plagiarism; or
 - indicate that the avenue is open for the matter to be treated as a case of suspected Level 1 plagiarism under Regulation 12 in work which does not constitute a thesis or major project report, or as a case of suspected Level 1 plagiarism under Regulation 13 in work which constitutes a thesis or major project report; or
 - refer the matter to the University Registrar who shall inform the person(s) reporting the suspected plagiarism and the student that there is a case to be answered, subject to an application under Regulation 20.
20. Where the Campus Co-ordinator replies in the terms of Regulation 19a, the Dean, Head of Department or Examiner may apply, no later than the elapse of two complete calendar weeks after the reply has been notified, through the University Registrar to the Chair of the Board for Graduate Studies and Research seeking a reversal of the Campus Co-ordinator's decision.
21. The Chair of the Board for Graduate Studies and Research may:
- where concurring with the identification of evidence of Level 2 plagiarism, uphold the application in Regulation 20 and treat the case as one which has been referred to the Chair under Regulation 19b; or
 - deny the application.
22. A denial by the Chair of the Board for Graduate Studies and Research of an application under Regulation 21b is, subject to Regulation 32, conclusive in relation to an allegation of Level 2 plagiarism in the case under consideration.
23. A denial by the Campus Co-ordinator under Regulation 19a which is, after the elapse of three complete calendar weeks after the reply has been notified, not the subject of an application under Regulation 20, or a denial by the Chair of the Page 6 of 8 Board for Graduate Studies and Research under Regulation 21b, terminates the proceedings on the plagiarism charge, subject to Regulation 32 and save to the extent that the Campus Co-ordinator has ruled otherwise under Regulation 19aii.
24. Where the matter has been referred under Regulation 19b or an application has been upheld under Regulation 21a, the Chair of the Board for Graduate Studies and Research, at the request of the University Registrar, shall establish a Committee of Inquiry comprising:
- The Chair of the Board for Graduate Studies and Research or his/her nominee.
 - One Academic Board representative from each campus sitting on the Board for Graduate Studies and Research.
 - One postgraduate student representative from among those sitting on the Board for Graduate Studies and Research.

Four members of the Committee including the Chair shall constitute a quorum.

25. The Committee of Inquiry is not a court of law but the hearing shall be conducted in accordance with the rules of natural justice. The Committee may summon witnesses to give evidence.
26. The Committee of Inquiry reserves the right to have legal representation.

27. The student shall be given a written notice from the University Registrar specifying the allegations of the Level 2 plagiarism, along with a copy of all material relevant to the charge and made available to the Committee, at least fourteen days before the hearing of the allegation and within one calendar month of the case first being reported to the Campus Co-ordinator.
28. The student shall have a right to appear before the Committee of Inquiry and to be accompanied or represented by a friend or by an attorney-at-law whose expenses will be borne by the student.
29. The student shall have the right to ask questions of witnesses, to call his/her own witnesses, to make statements on his/her own behalf, and to make submissions.
30. If the student fails to make an appearance before the Committee of Inquiry and does not offer a satisfactory excuse, the Committee of Inquiry may hear the case in the student's absence.
31. Where a Committee of Inquiry has been established under Regulation 24, the procedure under these Regulations prevails, subject to Regulation 32, over any other disciplinary proceedings against the student based on the same facts and, without prejudice to Regulation 38. Any other such disciplinary proceedings Page 7 of 8 must be terminated, subject to being re-opened to consider a recommendation of the Board for Graduate Studies and Research under Regulation 34b.
32. Where other disciplinary proceedings based on the same facts have been completed or have reached the stage of a hearing, whichever comes first, any procedure under these Regulations based on a charge of Level 2 plagiarism shall be terminated.
33.
 - i. If the Committee of Inquiry is satisfied, after holding a hearing, that the student has committed Level 2 plagiarism, it shall in making a determination on the severity of the penalty take into consideration:
 - a. the circumstances of the particular case;
 - b. the seniority of the student; and
 - c. whether this is the first or a repeated incidence of plagiarism by the student.
 - ii. Where a determination on the severity of the penalty has been made, the Committee of Inquiry shall report its conclusions and recommendations to the Board for Graduate Studies and Research which shall:
 - a. if the work in which the plagiarism occurred was not a thesis or major project report, fail the student in the assignment and hence the course in which the assignment was submitted, with the option to re-take the course at a time specified by the Board;
 - b. if the work in which the plagiarism occurred was a major project, fail the student in the project report, with the option to re-do and re-submit a project report on a different topic at a time specified by the Board;
 - c. if the work in which the plagiarism occurred was a thesis, either:
 - d. find the thesis to be inadequate, requiring re-submission of the revised thesis within eighteen months of the date of notification; or
 - e. fail the thesis, with no allowance for re-submission.
34. The Board for Graduate Studies and Research may also, if the Committee of Inquiry so recommends after being satisfied that the student has committed Level 2 plagiarism, either:
 - a. exclude the student from all further examinations of the University for such period as it may determine; or
 - b. recommend to the relevant Academic Board that the student should be dismissed from the University, with or without the possibility of re-entry.
35. The decisions taken by the Board for Graduate Studies and Research following receipt of the conclusions and recommendations from the Committee of Inquiry with respect to the outcome of the hearing and the severity of the penalty shall be communicated by the Chair of the Board to the University Registrar who shall inform the student, the Dean, the Head of Department and the Examiners of the decisions taken.

Clearance on a Charge of Level 2 Plagiarism

36. If the Committee of Inquiry is not satisfied, after holding a hearing, that the student has committed Level 2 plagiarism, it will direct the Campus Co-ordinator to reply to the Dean, the Head of Department, the Examiners and the student, through the University Registrar, advising them of the decision against proceeding further on the charge of Level 2 plagiarism, and may in addition:
- a. indicate that the decision is intended to preclude the invocation of the procedures for Level 1 plagiarism; or
 - b. indicate that the avenue is open to pursue the matter as a case of Level 1 plagiarism under Regulation 12 in work which does not constitute a thesis or major project report, or as a case of Level 1 plagiarism under Regulation 13 in work which constitutes a thesis or major project report.
37. A determination of the Committee of Inquiry under Regulation 33 terminates the Level 2 plagiarism proceedings and also precludes any further Level 1 plagiarism proceedings except as indicated by the Committee of Inquiry under Regulation 36b.

Level 2 Plagiarism: Appeal to the Senate

38. A student may appeal to the Senate from any decision of the Board for Graduate Studies and Research under Regulations 33 and 34a and of Academic Board under Regulation 34b.

Delegation by Dean or Head of Department

39. The Dean or Head of Department, as the case may be, may generally or in a particular instance delegate that officer's functions under these Regulations.

Supervisor's Conflict of Interest

40. Any person who has at any time been a supervisor of work in relation to which an issue of plagiarism is being considered under these Regulations must withdraw from performing any functions under these Regulations other than those of supervisor and examiner.

Amendment of the Regulations for Graduate Diplomas and Degrees

41. These Regulations on Graduate Student Plagiarism are an integral part of the University of the West Indies Regulations for Graduate Diplomas and Degrees, and are available as an Appendix to the University of the West Indies Regulations on Graduate Diplomas and Degrees.

PLAGIARISM DECLARATION

THE UNIVERSITY OF THE WEST INDIES

The Office of the Board for Undergraduate Studies

INDIVIDUAL PLAGIARISM DECLARATION

STUDENT ID:

COURSE TITLE:

COURSE CODE:

TITLE OF ASSIGNMENT:

This declaration is being made in accordance with the **University Regulations on Plagiarism (First Degrees, Diplomas and Certificates)** and must be attached to all work, submitted by a student to be assessed in partial or complete fulfilment of the course requirement(s), other than work submitted in an invigilated examination.

STATEMENT

1. I have read the Plagiarism Regulations as set out in the Faculty or Open Campus Student Handbook and on University websites related to the submission of coursework for assessment.
2. I declare that I understand that plagiarism is a serious academic offence for which the University may impose severe penalties.
3. I declare that the submitted work indicated above is my own work, except where duly acknowledged and referenced and does not contain any plagiarized material.
4. I also declare that this work has not been previously submitted for credit either in its entirety or in part within the UWI or elsewhere. Where work was previously submitted, permission has been granted by my Supervisor/Lecturer/Instructor as reflected by the attached Accountability Statement.
5. I understand that I may be required to submit the work in electronic form and accept that the University may subject the work to a computer-based similarity detection service.

NAME _____

SIGNATURE _____

DATE _____

GROUP PLAGIARISM DECLARATION

COURSE TITLE:

COURSE CODE:

TITLE OF ASSIGNMENT:

When submitting a group assignment for assessment each member of the group will be required to sign the following declaration of ownership which will appear on the coursework submission sheet.

We the undersigned declare that:

1. We have read the Plagiarism Regulations as set out in the Faculty or Open Campus Student Handbook and on University websites related to the submission of coursework for assessment.
2. We declare that I understand that plagiarism is a serious academic offence for which the University may impose severe penalties.
3. The submitted work indicated above is our own work, except where duly acknowledged and referenced.
4. This work has not been previously submitted for credit either in its entirety or in part within the UWI or elsewhere. Where work was previously submitted, permission has been granted by our Supervisor/Lecturer/Instructor as reflected by the attached Accountability Statement.
5. We understand that we may be required to submit the work in electronic form and accept that the University may check the originality of the work using a computer-based similarity detection service.

NAME _____

SIGNATURE _____

NAME _____

SIGNATURE _____

NAME _____

SIGNATURE _____

DATE _____

ADDITIONAL ACCOUNTABILITY STATEMENT WHERE WORK HAS BEEN PREVIOUSLY SUBMITTED

1. I/We have set out in an attached statement the details regarding the circumstances under which this paper or parts thereof has been previously submitted.
2. I/We have received written permission from my Supervisor/Lecturer/Instructor regarding the submission of this paper and I have attached a copy of that written permission to this statement.
3. I/We hereby declare that the submission of this paper is in keeping with the permission granted.

NAME _____

SIGNATURE _____

DATE _____

DOCTOR OF MEDICINE (DM) PROGRAMMES

DM Anaesthesia and Intensive Care

Department of Clinical Surgical Sciences

Qualifications for Entry

The applicant should be:

- a) A graduate in Medicine of a University or Medical School recognised by The University of the West Indies.
- b) Fully registered in the territory or territories in which training will take place.
- c) Normally, candidates will be eligible for entry after gaining experience for one (1) year in a recognised post of the specialty.

Aims and Objectives of Programme

The DM (Anaesthesia and Intensive Care) programme is a four-year graduate course which aims to provide the graduate with the knowledge and skills to function as a Consultant Anaesthetist and Intensivist equipped for independent practice in hospital-based and stand-alone facilities. The course is intended to prepare candidates for a Consultant level Anaesthesia and Intensive Care responsibilities including teaching and research.

Programme Structure and Curriculum

The DM Anaesthesia and Intensive Care is a four-year full-time programme covering the following courses for which students must register:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
ANIC 7671	DM Part I Anaesthesia & Intensive Care	Year 1 - 2	Semester I & II	Job in any approved RHA MBBS degree Full registration with MBTT
ANIC 7672	Clinical Research Project	Year 3 - 4	Semester I & II	Pass in ANIC 7671
ANIC 7673	DM Part II Anaesthesia & Intensive Care	Year 3 - 4	Semester I & II	Job in any approved RHA Pass in ANIC 7671

Part I (ANIC 7671)

- a) The Part I is two (2) years in duration. This part focuses on the essentials and basic sciences that underpin the practice of anaesthesia and intensive care. It includes basic and applied physiology, relevant anatomy, basic and clinical pharmacology, basic physics and clinical measurements, equipment and monitoring as well as perioperative assessment and management.
- b) The course content will be covered in modules. The candidate is expected to attend and participate in the postgraduate seminars. There will be regular assessments covering the material of the modules that have been covered in the postgraduate seminars. It will be the discretion of the supervisor and programme coordinator to allow candidates to continue in the programme if they fail more than two assessments.
- c) At the end of the first year, the candidate will have to appear for the common internal examination held across the campuses. This internal examination will determine whether the candidate will be allowed to continue in the programme. A satisfactory performance in this assessment is required before the student is allowed to advance to the second year of the programme.
- d) If a candidate fails this internal Examination, depending on the degree of failure, he/she may be required to
 - i. undergo remedial study and repeat the examination in 6 months ;
 - ii. repeat the entire first year and then re-sit the examination.

- e) If the candidate is unsuccessful in any component the internal examination at the second attempt, then he/she will not proceed to the second year of the programme and will be required to withdraw from the programme.
- f) During the second year, the assessments of the candidate will include course content as well as clinical skills/competency assessments. It will be the discretion of the supervisor and programme coordinator to approve that the assessments were satisfactory. At the end of the second year, normally one year after satisfactory performance at the internal examination, the candidate will be allowed to take the Part I examination. The scope of the ANIC 7671 examination will encompass the first two years of the curriculum.
- g) During the first year of the programme, the candidates must be exposed to anaesthesia for adult, paediatric and obstetric patients as well as intensive care management. There are some accredited hospitals where only adult patients or only paediatric patients are treated. However, the candidates must spend no less than six (6) months in an accredited multidisciplinary adult hospital and no less than three (3) months in an accredited paediatric hospital. The candidate must also have a minimum of three (3) months exposure to obstetric anaesthesia and should get exposure to intensive care.
- h) A candidate must successfully pass the DM Part I examination (ANIC 7671) before he/she is allowed to advance to the second part of the programme.
- i) If a candidate fails the DM Part I examination (ANIC 7671), he/she may be allowed no more than one more attempt, and in accordance with the recommendation of the SPECIALTY Board of Examiners, the candidate may re-sit the examination:
 - i. in six (6) months;
 - ii. in one (1) year.
- j) If the candidate is unsuccessful at the second attempt, then he/she will be required to withdraw from the DM programme.

Part II (ANIC 7673)

- a) The Part II is two (2) years in duration. The Part II (ANIC 7673) examination must be completed within three (3) years of successful completion of the Part I (ANIC 7671).
- b) The Part II consists of two years (Years Three and Four) of clinical rotations in accredited hospitals.
- c) The first year is considered an optional 'elective' year. During this period, the candidate has the option of working in a hospital abroad to gain clinical experience/expertise in a special subject area unavailable in the hospital where he/she is currently employed. If a candidate chooses to utilise this 'elective' period, prior approval must be obtained from the Board of Graduate Studies & Research. Such approval must be obtained at least six months prior to the commencement of the elective period.
- d) During this elective year, a maximum of three (3) months may be spent in a course of study in an affiliated area e.g., research methodology, epidemiology, teaching methods, medical administration etc. provided that prior approval has been obtained from the Specialty Board in Anaesthesia and Intensive Care.
- e) During Part II, clinical rotations through all anaesthesia subspecialties must be undertaken. These include, but are not limited to, anaesthesia for General, Orthopaedic, Cardiothoracic, Faciomaxillary and Paediatric surgery, Urology, Otorhinolaryngology, Obstetrics and Gynaecology, Neurosurgery and Ambulatory surgery. Rotations through the Intensive Care Unit, Preanaesthetic Outpatient services are also a requirement. Exposure to Acute and Chronic Pain Services is desirable. A steady progression of specialty skills, judgment, professional and ethical responsibility and clinical independence is expected over the four years of training.
- f) Candidates are required to undertake an original **research project** during the period of the Part II clinical rotations. The candidate is required to complete a project report/thesis to be submitted in partial fulfilment of the requirements for the Degree of Doctorate in Anaesthesia and Intensive Care of the University of the West Indies. This project report/thesis must be submitted no later than six (6) months (June 15 or December 15) prior to the next sitting of the Part II (ANIC 7673) examination. The project report/thesis must be deemed satisfactory (pass) since a pass is the pre-requisite for the student to be allowed to sit the final examination. The Part II examination is normally attempted at the end of the fourth year in the programme.

Research project report

1. All students must submit a research project to the Campus Committee for Graduate Studies through the Unit Coordinator of the Postgraduate programme, at least six months (June 15 or December 15) before the final Part II examination (ANIC 7673)
2. This should form a distinct contribution to the knowledge of the subject presented. It must be of satisfactory literary standard and should attain standards suitable for publication in a peer reviewed journal. It should not exceed 20,000 words but must not be less than 8,000 words excluding references, appendices, tables and figures and MUST follow the University's Guide for the Preparation of Theses, Research Papers and Project Reports.
3. The review of the literature should not be more than 25% of the project report.
4. The research project must have been previously agreed on by the Specialty Board and must be carried out under the guidance of a supervisor appointed by the Campus Committee for Graduate Studies on the recommendation of the Specialty Board.
5. The reference style used will follow the format of Vancouver Referencing Style as used by West Indian Medical Journal (WIMJ) whose guidelines are available under Instructions for Authors on the WIMJ website. This entails quoting the references in the text as Arabic numerals within plain brackets (no square brackets or superscripts).
6. The research project report/thesis must be typewritten and printed on one side only of good quality white bond paper (usually of 20 lb. weight) 8½"x 11" (Standard Letter Size), with left hand margin of 2". The top, bottom and right hand margins should not be less than 1". The same grade of paper should be used throughout the report for the soft bound copy. The research project report/thesis must also be submitted on one CD/DVD in an edit-enabled format/Microsoft format.
7. Students are advised to discuss the preparation of the research project report/thesis with their supervisor(s) while it is in preparation and should not wait until it is completed. This project offers the students the opportunity to study in detail, conditions of their own choice and to express views based on personal investigation and on review of the literature. From these project reports/theses, the examiners will assess the student's critical thinking abilities, powers of observation and the level of evaluation of various techniques used in anaesthesia and/or intensive care.

The submission dates for the research project are as follows:

- For DM students sitting the May/June examinations- December 15.
- For DM students sitting the November/December examination- June 15.

8. Following the submission of the work, the examiners may:
 - a) accept the work and the student may proceed to the examinations
 - b) accept the work with modification, with recommendations regarding changes, additions, or revisions necessary for acceptance. These changes must be carried out in the time specified and resubmitted. The date for resubmission will be determined by the Specialty Board in Anaesthesia and Intensive Care.
 - c) reject the work and the research project report/thesis must be redone.
9. The research project report/thesis should be submitted for assessment at least six months before the date of the final examination. **Acceptance of the project report is a prerequisite to proceed to the final examinations.** If the work as described in 8b. is found to be unsatisfactory and requires major changes, the student will not be allowed to sit the final examination and will be deferred until the next sitting provided that the resubmission is accepted. The Part II (ANIC 7673) examination must be attempted for the first time within one year of the acceptance of the research project report.

Case log & minimal competencies

- a) Students are required to keep a record of all anaesthesia and intensive care procedures performed. In addition, they are required to complete a predetermined list of minimal competency in cognitive and procedural skills felt to be fundamental to the training of specialists in anaesthesia and intensive care.
- b) The following three (3) requirements must be completed and accepted before the Part II examination:
 - i. A satisfactory standard of in-course assessments
 - ii. Case log & minimal competencies
 - iii. Research Project report/thesis

- c) If a candidate fails the DM Part II examination (ANIC 7673), he/she may be allowed no more than one more attempt and, in accordance with the recommendation of the SPECIALTY Board of Examiners, the candidate may re-sit the examination
- i. in six (6) months.
 - ii. in one (1) year.

If the candidate is unsuccessful at the second attempt, then he/she will be required to withdraw from the DM programme.

Teaching Methods

The programme will be a **minimum of four years** from the date of entry. **At least three years of the programme must be spent in the Commonwealth Caribbean.** Throughout the programme, candidates must hold recognised posts in accredited hospitals or be on an 'elective' approved by the Board for Graduate Studies and Research through the Faculty Committee for Graduate Studies or "equivalent bodies". A minimum of three (3) months in the first two (2) and three months in the last two (2) years must be spent at the University-affiliated hospital of the campus territories. The remaining time may be spent in accredited hospitals.

The course will be administered under the general supervision of the Unit Coordinator, nominated by the Head of the Department and appointed by the Campus Committee for Graduate Studies and Research. The Chair of the Specialty Board in Anaesthesia and Intensive Care & Emergency Medicine will be appointed by the Head of Department or Dean of the Faculty. Each student will be assigned to a supervisor, who is either a full-time lecturer/part-time lecturer/associate lecturer in Anaesthesia and Intensive Care. The supervisor will provide academic guidance as to the choice or assignment of rotations, the elective period and direction in the conduct of their research and all other relevant matters.

The candidate is supervised during their clinical work and training is imparted in the various clinical skills of Anaesthesia and Intensive care. Postgraduate seminars are held weekly with assigned topics for the candidates to present and ensuing discussions will be part of enhancing the theoretical knowledge.

The sole and final authority on all matters concerning the programme is the Campus Board for Graduate Studies and the University Senate.

Teaching and training in teaching methods and research methodology are integral components of the programme. All trainees should appreciate the need for ongoing research in the field and are encouraged to cooperate with research efforts of department/unit members.

A list of accredited hospitals is given below and also may be obtained from the Graduate Studies Section of the Dean's Office. Some are accredited only for the first part of the course; others are accredited to provide training in the second part of the course for a specified time. To gain credit for such a period the candidate must submit a satisfactory assessment report from their supervisor.

TRINIDAD

1. Port-of-Spain General Hospital
2. San Fernando General Hospital
3. Eric Williams Medical Sciences Complex
4. Mount Hope Women's Hospital (approved only Part I - 3 months, Part II - 6 months)
5. Scarborough General Hospital (approved for Part I)
6. Sangre Grande Hospital (approved for Part I)

JAMAICA

1. University Hospital of the West Indies (UHWI)
2. Kingston Public Hospital (KPH) (Residents employed at this hospital must spend three months at Bustamante Hospital for Children (BHC) in the 1st year and six months at UHWI in the 2nd or 4th years)
3. Bustamante Hospital for Children (Residents employed to this hospital must spend six months at UHWI or KPH during the 1st year, and a further six months at UHWI in the 2nd or 4th years)
4. Cornwall Regional Hospital (CRH) (accredited for six months during first year only).

BARBADOS

1. Queen Elizabeth Hospital (QEHL)

Continuous Assessment

- a) Continuous assessment of the candidate's performance is carried out by his/her supervisor and recorded every six (6) months. The attributes assessed and scored are: Practical skill abilities, Confidence level, Willingness to learn, Punctuality and Attendance, Aptitude & Professionalism.
- b) If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:
 - i. Counselling/academic warning in writing
 - ii. Remedial work
 - iii. Repeating the unsatisfactory rotations
 - iv. Withdrawal from the programme, if poor performance persists.

Examinations

- a) On acceptance to the programme, during the first one (1) year period, the candidate's performance will be assessed continuously at regular intervals. At the end of one year, there will be an in-house examination.
- b) Students are normally expected to present themselves for the first examination being held following completion of the modules of the programme for in-house or Part 1 or Part 2. In exceptional circumstances (such as ill health), a student may request permission from the Board for Graduate Studies and Research to delay the date of the first sitting.
- c) Students who have deferred sitting of an examination must sit the examination within one year of the deferral being approved.
- d) Candidates must register for the examination at the appropriate time.
- e) Before admission to any examination, candidates must be certified by their supervisors as having completed the relevant modules of the programme for in-house or Part 1 or Part 2.
- f) Should any candidate fail the examination for in-house or Part 1 or Part 2 at the first attempt, completion of the second attempt must be within one calendar year of the first attempt.
- g) **No student will be allowed more than two attempts at any one examination. A candidate who fails the second attempt will be required to withdraw from the programme.** Re-admission of candidates will be in accordance with the University regulations for Graduate Diplomas and Degrees.
- h) Examinations are normally held twice per year in May/June and November/December. The hosting of the clinical component and the oral examinations is rotated amongst the three University campuses.
- i) The DM (Anaesthesia & Intensive Care) programme will normally last four years. During the four years after enrolling in the DM programme, a successful candidate will normally take the common cross-campus internal (in-house) examination at the end of the Year ONE. At the end of Year TWO, one year after successful completion of the in-house exam, the successful candidate will normally take the Part I (ANIC 7671) examination. At the end of Year FOUR, two years after successful completion of the Part I exam, the successful candidate will normally take the Part II (ANIC 7673) examination. The candidate must fulfil the other requirements as set out by the University in order to be allowed to take the examinations.
- j) **Internal (in-house) examination**
 - The internal examination will normally be attempted at the end of Year ONE.
 - The internal examination will be held in all the three Campuses on the same day.
 - If the candidate fails this examination, he/she will be allowed no more than one more attempt/re-sit of the examination in six (6) months but no later than one (1) year after failing the internal examination.
 - A candidate who fails any component of the internal examination for a second time will be required to withdraw from the programme. **There will be no more attempts allowed for this examination.**
- k) **The Part I (ANIC 7671) examination**
 - The Part I examination will normally be attempted at the end of Year TWO.
 - The Part I examination comprises of a written paper and a multiple choice (MCQ) paper and an oral examination.
 - Candidates will be invited to the oral examination depending on their performance in the MCQ paper.
 - Continuation of a candidate in the training programme will be dependent on the recommendation of the Board of Examiners, based on his/her continuous assessments and the results of the Part I examination.

- If the candidate fails the Part I examination, he/she may be allowed, no more than one more attempt/ re-sit of the examination, in accordance with the recommendation of the Board of Examiners, in either six (6) months or one (1) year after failing the examination.
- If the candidate is unsuccessful at the second attempt of the Part I examination, then he/she **will be required to withdraw from the DM programme.**

l) **The Part II (ANIC 7673) examination**

- The Part II examination will normally be attempted at the end of Year FOUR.
- The research project report must be submitted no later than six (6) months prior to the Part II examination (June 15 or December 15). The project report must be accepted before the candidate can proceed to the Part II examination.
- The Part II (ANIC 7673) examination comprises of two written papers, an OSCE and an oral examination.
- The candidate must sit the Part II examination within one (1) year of acceptance of the research project report. The candidate must sit the Part II examinations within 3 years of passing the Part I examination.
- Candidates **MUST pass ALL papers/components of the examination to be deemed an overall pass, regardless of the cumulative score.**
- If the candidate fails the clinical examination, the candidate **CANNOT PASS the Part II (ANIC 7673) examination, even if he/she has passed the other components of the examination.**
- If the candidate fails the Part II examination, he/she may be allowed, no more than one more attempt/re-sit of the examination, in accordance with the recommendation of the Board of Examiners, in either six (6) months or one (1) year after failing the examination.
- If the candidate is unsuccessful at the second attempt of the Part II examination, then he/she **will be required to withdraw from the DM programme.**

- m) Candidates must conform to the University Regulations on Examinations for Higher Degrees. Any further examination details can be obtained from the UWI Anaesthesia and Intensive Care Unit.

Criteria for Award of Degree

Students will be considered as having successfully completed the programme when the following FOUR requirements have been met:

1. Satisfactory performance of all rotations;
2. Acceptance of their certified case log/minimal competencies;
3. Acceptance of the Research Project report/thesis;
4. Satisfactory performance in Part I (ANIC 7671) and II (ANIC 7673) examinations.

Once a candidate completes the requirements – **Pass ALL components of ANIC 7671 and 6672 and satisfactory acceptance of Research Project report/thesis** – this information will be sent as a grid to Office of Graduate Studies and Research with a recommendation to award DM degree.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Dale Ventour

Building 5, First Floor, EWMSC
Telephone: 225-4673 Extension 2360
Email: dale.ventour@sta.uwi.edu

DM Anatomical Pathology

Department of Paraclinical Sciences

Qualifications for Entry

Candidates with a UWI MBBS degree or its equivalent with an overall GPA of 3.0 or above will be preferentially considered for admission to the DM Anatomical Pathology programme. Entry to the programme can be directly following the 1 year house officer (HO) posts in relevant medical and/or surgical specialties. Pre-entry experience of at least six (6) months in pathology at the HO grade is recommended. Entry from other specialties or from general practice is also possible. Candidates who have experience/worked in Anatomical Pathology for three (3) or more years may be given six months' waiver based on evidence provided and decision of the Specialty Board.

Aims and Objectives of Programme

The Doctor of Medicine programme in Pathology (DM Anatomical Pathology) aims to produce clinicians who are competent to practice at consultant level in the specialty and subspecialties of Anatomical Pathology, able to take personal responsibility for their own activities and to work well as part of a team in the development and delivery of the laboratory medicine component of healthcare services. The programme seeks to introduce a postgraduate programme in Anatomical Pathology at the St. Augustine Campus. It is adopted from the DM Pathology programme offered at the Mona campus, which programme was restructured in 2017 and approved in 2018. Pathologists trained in the DM Anatomical Pathology programme would provide critical specialist and subspecialty skills to academic departments and laboratories throughout the region. In the academic departments of the Faculty of Medical Sciences across UWI campuses, graduates from the programme sustain the teaching of pathology for the MBBS programme for undergraduate medical students and support the training of postgraduate students in Pathology with teaching contributions to other DM programmes including Haematology and those of the surgical specialties.

Programme Structure and Curriculum

On acceptance to the programme, there will be a six-month probation period during which the candidate's performance will be assessed at regular intervals. Any candidate who fails the overall assessment during this period of probation will be required to withdraw from the programme.

The programme will be a minimum of five years from the date of entry. The course of study will normally take place at the Eric Williams Medical Sciences Complex or at institutions recognised by the University for this purpose; but up to one year's elective period may be spent at an approved institution in or out of the Caribbean provided prior approval is obtained from the Board for Graduate Studies and Research through the Faculty Committee for Graduate Studies. Throughout the programme, candidate must hold recognised posts in accredited hospitals or be on the elective period approved by the Board for Graduate Studies and Research. The programme is divided in two parts: Part I and Part II.

Part I:

- i. The first part is of a minimum of ninety-two weeks duration, excluding leave, and must include training in
 - a) Anatomical Pathology (including Cytology) – 68 weeks
 - b) Haematology/Oncology – 12 weeks
 - c) Chemical Pathology – 12 weeks
- ii. Provided the in-course assessments are satisfactory, the Part I examination is taken at the end of the 92 weeks. Admission to the second part depends on satisfactory assessments and performance in the Part I examination.

Part II

- i. The second part is of a minimum of 138 weeks duration, excluding leave. It may include a period not exceeding one year, ideally in the third year, spent as an elective, providing that approval has been obtained from the Faculty Committee for Graduate Studies. Such approval must be obtained at least six months prior to the commencement of the elective period. The elective period may be spent in a hospital-based or standalone clinical laboratory, which can provide the student with experience not readily available at the hospital at which he/she is employed. Teaching and training in teaching methods, research methodology and laboratory quality assurance and management are also integral components of the programme. All students should appreciate the need for ongoing research in the field and are encouraged to cooperate with research efforts of department/division members.
- ii. During the second part in Anatomical pathology, rotations through the various subspecialties must be undertaken. These include but are not limited to cardiovascular, gastrointestinal, neuropathology, paediatric and renal pathology.

Teaching Methods

The programme will be delivered through didactic lectures, seminars, tutorials, and case-based teachings including slide seminars. Emphasis is on practice-based learning.

Teaching materials will include cases accessioned in the department in all of the subspecialty areas as well as textbooks and internet-based resources. The practice component will require the provision of microscopes, other tools and instruments as well as safety equipment for residents to function optimally in the programme.

Continuous Assessment

Assessment instruments during the five-year will include:

1. Completed and signed formative assessment checklists for laboratory safety guidelines, specified laboratory procedures, case logs for autopsies, practical skills assessments for autopsies and autopsy case management, surgical pathology case management, cytology case management and surgical pathology case reports.
2. The supervisor of each resident is required to give an assessment on the progress of the student each semester using the official instrument - the Supervisor's Progress Report. Account is taken of the resident's academic progress and competencies as guided by the formative assessment tools (part 1. above), as well as their professional behaviour and ethics.

The DM (Path) examinations will be the main objective assessment of progress. Before admission to any examination, candidates must be certified by their supervisor as having satisfactorily completed the relevant parts of the programme.

The DM Part I examination is a written test of knowledge, which can be taken after a minimum of 92 weeks (two years) training. The pass mark for each component will be **50%. Candidates are required to pass all components of the examination in order to obtain an overall pass.**

The DM (Path) Part II examination is a written test of knowledge, which will be taken after a minimum of 230 weeks (5 years) total training time, or a minimum of 138 weeks (three years) after the DM Part I examination. **The pass mark for the written and oral component will be 50% while that for the practical will be 70%. Candidates are required to pass all components of the examination.**

Achieving a pass mark for the examination does not guarantee an overall pass in the event that egregious errors were made in any component of the examination process.

The following requirements must be completed before the Part II examination

1. **A satisfactory standard of in-course assessments.**
2. **A completed research project is a requirement of the second part of the programme. It should be compiled according to the UWI regulations for Graduate Studies thesis submission and sent to the relevant external examiner not later than six (6) months prior to the examination.**

Criteria for Award of Degree

Successful completion of the Part II examination.

Contact Information

Dr Srikanth Umakanthan

Room 30, Ground Floor, Bldg 5,
Unit of Pathology
Department of Paraclinical Sciences
Tel: 663-3797; 645-2640 Ext. 2330
Email: srikanth.umakanthan@sta.uwi.edu

Ms. Ayanna Gomez

Pathology/Microbiology Unit
Department of Paraclinical Sciences
Tel: 663-3797; 645-2640 Ext.2258
Email: ayanna.gomez@sta.uwi.edu

DM Emergency Medicine

Department of Clinical Surgical Sciences

Qualifications for Entry

MBBS from accredited medical school, full medical board registration, at least 1 year experience in an Emergency Department, presently working in an Emergency Department in one of the main hospitals; previous resuscitation courses recommended (ACLS, APLS, ATLS).

Aims and Objectives of Programme

The aim of the DM in Emergency Medicine is to train doctors in the specialty of Emergency Medicine to a level that allows them to provide clinical support and administrative leadership to their Emergency Departments. Successful DM candidates will practice at the level of consultants and Emergency Medicine.

Programme Structure and Curriculum

The DM Emergency Medicine is a 4-year full-time programme commencing in January (Semester II) each year. Courses for which students must register are provided below:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
EMME 7637	DM Emergency Medicine Part I	Year 1 - 2	I & II	4 completed cases in the Casebook
EMME 7645	Casebooks	Year 3 – 4	I & II	Pass in EMME 7637
EMME 7646	Research Project	Year 3 - 4	I & II	Pass in EMME 7637
EMME 7647	DM Emergency Medicine Part II	Year 4	I & II	All 10 cases and Research component of Casebook must be completed and passed.

Rotations: Students are expected to complete six months per year in emergency room rotations. The other six months are spent rotating through relevant subspecialty areas including: Anaesthetics and ICU, Paediatric Emergency (6 months), Internal Medicine and subspecialties, Surgery and its subspecialties /Radiology, Orthopaedics, Community, Obstetrics and Gynaecology and Psychiatry, Elective. Each rotation will be 3 months.

Teaching Methods

Clinical supervision, weekly tutorials, bed side teaching, grand rounds, pod casts, short courses for practical skills, journal reviews, scenario practise, mini conferences, weekly department clinical teachings, Resuscitation courses.

The majority of training in the DM programme will be facilitated through direct clinical supervision during normal work. Supervisors will include consultants in Emergency Medicine as well as those consultants in charge of candidates during their secondments to other specialties.

For weekly tutorials: All DM candidates will be expected to meet weekly for tutorials in Emergency Medicine, which would aim to cover the core curriculum over the first three years.

Candidates will be expected to attend other educational activities during their course, including departmental teaching (both in Emergency Medicine and during secondments) and monthly Emergency Medicine Grand Rounds.

Continuous Assessment

Feedback from supervisors and feedback from residents on modules, mock exams, short exams, regular appraisals every 3 to 6 months within rotations and out of rotations.

Final Examinations

Written exam, OSCE and orals. Research proposal must be submitted for Ethical consideration and 4 completed cases in the casebook required before eligible for DM part 1 exam. Completion and acceptance of casebook required before eligible for DM part 2 exam.

Criteria for Award of Degree

Students must pass all components of the exam before the degree is awarded.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Contact Information

Dr Arvind Ramnarine

Tel: 645-3232 Ext. 2960 (EWMSC)

Email: arvind.ramnarine@sta.uwi.edu

Ms Oli-Ann Atkinson / Ms Melrose Yearwood

Building 14, 3rd Floor, Room 302/Building 14, 2nd Floor, Room 205

Tel: 645-3232 Ext. 2862/2864

Email: oliann.atkinson@sta.uwi.edu OR melrose.yearwood@sta.uwi.edu

DM Family Medicine

Department of Paraclinical Sciences

Qualifications for Entry

Candidates must have completed the Diploma in Family Medicine (or equivalent from a recognised university) in order to apply for the DM programme. Candidates who completed Year 1 of the DM programme can be considered for entry into Year 2 of the DM Family Medicine. It is mandatory that all applicants be fully registered for practice and be actively engaged in primary care work at the time of application.

Aims and Objectives of Programme

1. To create the specialist Family Physician;
2. To train postgraduate students of medicine in a wide range of knowledge, skills and attitudes appropriate to the practice of Family Medicine in the community;
3. To impart and enhance knowledge in the personal, family and social aspects of health, illness and disease;
4. To enhance professional competence, values and behaviours that are inherent to the discipline of Family Medicine;
5. To enhance the skills of critical reflection and assessment of professional activities, enabling them to meet the changing health needs of patients, families, and their communities, and the changing demands of health care in modern societies;
6. To promote skills in effective, continuing medical education, to revise past knowledge, and to keep abreast of advances in medical science and technology appropriate to Family Medicine;
7. To enhance knowledge and skills in health promotion, disease prevention and risk management;
8. To develop the research skills to create new knowledge pertinent to Family Medicine in the West Indies.

Programme Structure and Curriculum

This 2-year programme covers the following course of study:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
PUHE6004	Research Methodology	1	1	Students will not be allowed to register for the DM in Family Medicine without first satisfactorily completing the 2-year Diploma in Family Medicine programme.
MEDC6925	Biostatistics and Data Analysis for Health Sciences	1	1	
MEDC6802	Evidence Based Med (MSc)	1	2	
MEDC6600	Counselling for Primary Care Physician	1	2	
To be advised	Diabetes Screening and Management	1	2	
MEDC 6641	Presentation of the Research Proposal	1	2	
MEDC6642	DM Year 1 Paper I	1	2	
MEDC6642	DM Year 1 Paper II	1	2	
MEDC6650	DM Family Medicine Research Project	2	2	
MEDC6688	DM OSCE	2	2	

Teaching Methods

Teaching is primarily through face-to-face sessions led by lecturer and seminars led by students.

Adult learning principles are employed to identify gaps in knowledge and practice and opportunities identified to address these gaps.

Continuous Assessment

Year 1 (DM)

Students are expected to register for the following core courses:

- a) Research Methodology (PUHE 6004)
- b) Biostatistics & Data Analysis for Health Sciences (MEDC 6925)

Optional Courses (students must do two of the following depending on availability)

1. Counselling Skills for Primary Care Physicians (MEDC 6600)
2. Evidence-Based Medicine Part II (MEDC 6802)

Final Examinations

Students who have achieved pass marks for the above 4 required courses will be allowed to undertake the final examination.

Student assessment for year 1 will consist of:

- a) Presentation of Research Proposal - 40% of the final mark
- b) Coursework - 20% of the final mark
- c) Written papers (MEDC 6641 and MEDC 6642) - 40% of the final mark

Year 2 (DM)

Students will only be able to progress to year 2 of the DM once they have successfully completed ALL the examinations at the end of year 1 DM. This year is dedicated to completion of the research proposal submitted in year 1 DM. The major task of this year is the actual data collection, data analysis and submission of an in-depth Clinical Research Project report. Students will also be required to complete academic led clinical sessions. There will be two final assessments at the end of the year 2 DM. The Clinical Research Project will be formally examined and students will also be required to pass an OSCE (Objective Structured Clinical Examination)

Criteria for Award of Degree

- **Year 1:** To be successful candidates are required to achieve a passing grade in all components of the assessment above.
- **Year 2:** Successful defense of the Clinical Research Project and successful completion of the DM OSCE.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. M. Shastri Motilal

Bldg 13, First Floor (Family Medicine office)

Telephone: 710-9545 or 645-6741

Email: shastri.motilal@sta.uwi.edu

DM Haematology and Blood Banking

Department of Paraclinical Sciences

Qualifications for Entry

Candidates must be graduates of medical schools approved by the Medical Board of Trinidad and Tobago. They must have successfully completed their internship and be fully registered with the Medical Board of Trinidad and Tobago. Candidates must have successfully completed all phases of the Membership of Physicians (MRCP) or Membership of the Royal College of Child Health (MRCPCh), Part 1 of The UWI DM in Internal Medicine or Paediatrics or any equivalent combination of postgraduate qualifications.

Aims and Objectives of Programme

Aims

The aim of the programme is to address the great need for haematologists in the region and provide the education and manpower to upgrade regional blood transfusion services to internationally acceptable standards.

Programme Objectives

On completion of the programme, students will be able to:

1. Request and interpret appropriate haematological laboratory tests.
2. Apply the clinical techniques required for diagnosis and investigation in haematology practice.
3. Investigate diseases of the blood and bone marrow at a level which permits safe and holistic management of patients as an independent practitioner.
4. Perform in specialist areas within haematology, such as paediatric haematology and blood transfusion sufficient for general haematology practice.
5. Manage the running of an effective diagnostic haematology laboratory and clinical service.
6. Function as a teacher, team worker and leader.
7. Participate in and promote research to improve clinical practice.

Programme Structure and Curriculum

PRE-REQUISITES:	MRCP, MRCPCH, OR DM PART 1
Course load/semester; part-time/full-time:	<p>All courses are full-time.</p> <p>Year 1 Courses</p> <p>HABB 6001: Introduction to Laboratory Haematology (1) HABB 6003: Anaemia (1) HABB 6004: Acute Leukaemia (1) HABB 6005: Chronic Leukaemia (1) HABB 6006: Myeloma and other Plasma Cell Dyscrasias (1)</p> <p>Year 2 Courses</p> <p>HABB 6008: Congenital Coagulation Disorders (1) HABB 6009: Thrombosis (1) HABB 6010: Anticoagulation (1) HABB 6011: Acquired Bleeding Disorders (1) HABB 6012: Platelet Disorders (1) HABB 6013: Haemoglobinopathies (1) HABB 6014: Bone Marrow Failure Syndrome (1) HABB 6015: Myeloproliferative Neoplasms (1) Research Project (5)</p> <p>Year 3 - 4 Courses</p> <p>HABB 6002: Laboratory Haematology (3) HABB 6007: Lymphoma (1) HABB 6016: Haematology Relating to Other Medical Specialties (3) HABB 6017: Generic Competencies in Haematology (3) HABB 6018: Blood Transfusion (3) HABB 6019: Paediatric Haematology (3) Elective Period (5)</p>

Number of failures per semester:	Not applicable
Re-sit examinations:	In accordance with regulations for graduate courses
Assessment procedures for courses, coursework, fieldwork, internships, or other	<ul style="list-style-type: none"> • Continuous evaluation by log book • Biannual appraisals. • Short tests after each module • Final examination after completion of Year 4
Assessment procedures for Research Project (as appropriate):	<ul style="list-style-type: none"> • Written report and oral presentation. • Internal and external assessors from UWI and University of Sheffield

Teaching Methods

The programme will be delivered primarily through clinical and laboratory experiential learning at the Haematology Unit of a Regional Health Authority (RHA). Haematology and blood banking laboratory facilities exist at the North Central (Eric Williams Medical Sciences Complex), North West (Post of Spain General Hospital), Eastern (Sangre Grande Hospital), Tobago (Scarborough Regional Hospital) and South West (San Fernando General and Point Fortin Area Hospitals) Regional Health Authorities. Trainees will be full-time employees and participate in supervised in-patient and out-patient management of persons with primary haematology disorders and patients referred for consultation by other departments. Clinical and laboratory procedures will be undertaken in a supervised manner. There is a schedule of didactic lectures and trainee-led tutorials. Trainees are expected to keep up-to-date through self-directed reading. Local supplementary experience will be gained at relevant laboratories and institutions (blood banks, public health laboratory, PAHO office, CARPHA). A research project is undertaken in year 2 and overseas training for 3 months on a recognised training unit in a developed country is included in the last year of the programme.

Assessment

Formative Assessment:

Workplace-Based Assessments:

- Multi-Source Feedback (MSF)
- Mini-Clinical Evaluation Exercise (mini-CEX)
- Direct Observation of Skills (DOPS)
- Case-based Discussion (CbD)
- Patient Survey (PS)
- Audit Assessment (AA)
- Teaching Observation (TO)

Summative Assessment:

The DM Haem.BB examination in haematology consists:

- **Part 1:** An assessment of knowledge and clinical and laboratory judgement comprising two (2) examination papers: Paper 1 [4 essays] and Paper 2 [125 multiple choice questions in best from five or extended matching question format].
- **Part 2:** An assessment of core clinical and laboratory skills [data interpretation and clinical judgement] in haematological morphology, haemostasis and thrombosis and transfusion medicine, and a structured oral examination.

Generally, trainees will attempt Part 1 after 24 months of training and will be eligible to attempt Part 2 after a minimum of 24 months after success in the Part 1 examination.

Criteria for award of degree

- **Part 1:** Candidates must attain a passing grade in all the assessments above.
- **Part 2:** Candidates must have completed the research project the mandatory elective posting and achieved a passing grade in all the assessments above.

Contact Information

Please contact the following person for distribution of packages and orientation upon acceptance into the programme:

Dr. Kenneth S. Charles

Unit of Pathology/Microbiology
Department of Paraclinical Sciences
Tel: 663-3797; 225-4673 Ext.2253
Email: kenneth.charles@sta.uwi.edu

Ms. Ayanna Gomez

Pathology/Microbiology Unit
Department of Paraclinical Sciences
Tel: 663-3797; 225-4673 Ext.2253
Email: ayanna.gomez@sta.uwi.edu

DM Internal Medicine

Department of Clinical Medical Sciences

Qualifications for Entry

Graduates of Medical Schools approved by the Medical Board of Trinidad and Tobago. Candidates **must** have successfully completed their internship and be fully registered with the Medical Board of Trinidad and Tobago.

Requirement for Entry:

1. (See General Regulations)
2. The date of entry will normally be January or July and as determined by the date when the candidate begins to work in a recognised post in an accredited hospital. Application to enter the programme may be made before securing such a post. The applicant may then receive from the School of Graduate Studies and Research, on the recommendation of the Faculty Committee for Graduate Studies, provisional acceptance for entry to the programme contingent on the obtaining of an accredited post.
3. Applicants for entry to the DM Internal Medicine programme should in addition to the general requirements have had 12 months post-internship experience. It is preferable for at least 6 months to be spent in General Internal Medicine. Experience in a Casualty/Accident and Emergency Department is encouraged and at some campuses might be considered necessary

Aims and Objectives of Programme

The aim of the DM in Internal Medicine is to train doctors in Internal Medicine so that they are independent, proficient physicians in the areas of clinical practice, academic medicine and administrative leadership.

Residents should demonstrate the ability to:

- Obtain a complete and reliable history of the patient with general medical disease.
- Present a clear and sufficiently detailed written/oral report of patient history and physical examination.
- Apply knowledge of anatomy, physiology and biochemistry to general medical diseases.
- Formulate differential diagnoses based on history and physical examination
- Formulate a plan of management which includes awareness of indications for and interpretation of common tests useful in confirming diagnosis of general medical conditions.
- Retrieve and critically analyze up-to-date data from the guidelines, peer reviewed journal articles, databases, text books, etc and apply these to management issues.
- Engage in teaching of undergraduate students.

Programme Structure and Curriculum

The DM programme in Internal Medicine is a minimum four-year programme and consists of two parts as follows:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
Part 1: Years 1 & 2				
INMD 7655	DM (General Internal Medicine) Pt. 1	Year Long	I & II	MBBS -
Part 2: Years 3 & 4				
INMD 7657	DM (General Internal Medicine) – Research Project	Year Long	III	DM GIM Part 1 -
INMD 7656	DM (General Internal Medicine) Pt. 2	Year Long	III & IV	-

Part I (Years 1 and 2)

During Years 1 & 2, the resident is expected to rotate through General Internal Medicine and sub-specialties where the residents will be working in both in-patient and out-patient settings under the supervision of senior residents and consultants at approved hospitals or institutions. The residents are expected to achieve the objectives in the following subspecialties: Cardiology, Neurology, Nephrology, Gastroenterology, Endocrinology, Rheumatology, Infectious diseases, Pulmonology and Critical Care, and Dermatology. Ideally, the residents should have exposure to all subspecialties before the end of the second year.

Part II (Years 3 and 4)

- A duration of two years of which in Year 3 (the elective year) students will be substantially engaged in acquiring research skills while continuing clinical work. Students will be required to do their Research Project during this year.
- This elective year allows the resident the choice of spending it either at the teaching hospital or at any other approved Institution within the Caribbean region or outside. The residents are allowed to select the clinical or laboratory area they would like to work in. Specialty Board approval of the elective year is required.
- During Year 4, the residents return to the teaching hospital where they will acquire further intensive training in General Internal Medicine.

Exemption

Students who have completed periods of study in Internal Medicine in approved hospitals or institutions may apply through the Specialty Board and the Faculty Committee for Graduate Studies for exemption from the appropriate section of the programme.

Formative Assessments

Each student will be assessed by a formative examination every six months. During years one, two and four, the students will be assessed at the end of a rotation by the consultant with whom they have worked during that period.

During the elective year (year three) if the student is working in one of the subspecialty services, then the student will have assessments by the consultants with whom they have worked during that period.

If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:

- (a) Counselling
- (b) Remedial work
- (c) Repeating the unsatisfactory rotations with consequent delay of the examination.
- (d) Withdrawal from the programme, if poor performance persists

Teaching Methods

The programme is heavily based on self-directed learning and, it requires each DM candidate to fully participate in all areas of teaching and learning. These include:

- Manage, under supervision, inpatients on the general medicine service, out-patients in the clinic and patients referred to the service.
- Observe and acquire knowledge and skills to perform procedures, with or without ultrasound guidance such as paracentesis, thoracentesis, central venous catheter placement and lumbar puncture
- Observe specialist procedures and be familiar with the preparation for the procedures and the management of any complications.
- Review with pathologist any histology slides from patients managed.
- Observe post-mortems on general medical cases.
- Teach medical, nursing, physiotherapist and pharmacist students.
- Research, prepare and present general medicine and related subspecialty topics on ward rounds, seminars and grand rounds.
- Attend conferences on general internal medicine areas.
- Syllabus – Refer to Department

Final Examinations

The DM Medicine examination consists of two parts: Part I and Part II.

DM Part I Examination (INMD 7655)

- i. The Part I examination is taken at the end of two years. Once the candidates have progressed satisfactorily through the first two years of the training programme (including satisfactory examinations and assessments) they are allowed to take the DM Part I examination. This consists of:
 - Written papers (Paper I & II - multiple choice questions)
 - A clinical examination (objective structured format)

- ii. The candidate must pass both parts of the examination that is written and the clinical examination. Students will not be allowed to proceed to Year 3 of the programme until they have passed the Part I examination. Students are allowed two attempts at the Part I examination.

DM Research Project (INMD 7657)

All students will be required to do a Research Project that is suitable for publication. Following the submission of the work, the Head of the Department or Coordinator of the programme will appoint reviewers or examiners who may:

- (a) Accept the work allowing the student to proceed to the examination, or
- (b) Reject the work, with recommendations regarding changes, additions, or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.

The Research Project should be submitted for assessment at least six months before the date of the final examination. If the work is found to be unsatisfactory and requires major revision the students will not be allowed to sit the final examination and a new date will be set.

Passing of the clinical research project is a prerequisite for sitting of the Part II examinations.

DM Part II Examination (INMD 7656)

- i. The Part II examination will be taken at the end of Year 4 of the programme. Having passed the Part I examination and then satisfactorily completed Years 3 and 4 in a similar manner to Years 1 and 2 above, the candidate progresses to Part II of the examination. This examination consists of:
 - ii. Written papers (Paper I & II - multiple choice questions)
 - (a) A clinical examination (objective structured format)
 - (b) An oral examination.

Candidates must pass the written and clinical examination parts of the examination. Candidates who fail to satisfy the examiners in Part II of the examination at the first attempt will be required to make one further attempt within one year and if unsuccessful will be required to withdraw.

The candidate must not defer either Part 1 or Part 2 examinations without permission from the Specialty Board and normally the examinations should not be deferred for more than one exam sitting.

Criteria for Award of Degree

These will be awarded using the accepted UWI standard according to the Regulations for Graduate Diplomas and Degrees.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Sherry Sandy

Adult Medicine Unit, POSGH

Tel: 623-4030

Email: sherry.sandy@sta.uwi.edu

DM General Surgery

Department of Clinical Surgical Sciences

Qualifications for Entry

1. The applicant should be:
 - a) A graduate in Medicine of a University or Medical School recognised by The University of the West Indies.
 - b) Fully registered in the territory or territories in which training will take place.
 - c) The applicant should have spent twelve (12) months after internship in the appropriate discipline.

2. Date of Entry – 1st January or 1st July
 - a) The date of entry will normally be determined by the date when the candidate begins to work in a recognised post in an accredited hospital. A candidate may apply to enter the programme before (s)he secures such a post. (S)he may then receive from the School of Graduate Studies and Research provisional acceptance for entry to the programme contingent upon his/her obtaining an accredited post. The date of entry will be determined by the School of Graduate Studies and Research after the candidate has secured such a post.

3. The candidate who has been shortlisted after successful completion of an interview will be offered a provisional place in the programme. After the application has been processed by the University, the applicant will be officially informed of the date of entry by the Campus Registrar.

Aims and Objectives of Programme

The programme's aim is to produce, for the territories served by The University of the West Indies, individuals with sufficient knowledge, skill and experience to fill Consultant posts in the appropriate disciplines. Trainees are eligible to take the examinations leading to the relevant DM degree in the discipline after satisfactorily completing the training programme. The postgraduate degree is awarded on satisfactory completion of the training programme and passing of the necessary examinations.

Programme Structure and Curriculum

1. The DM General Surgery is a 5-year full-time programme covering the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
SURG 7620	DM General Surgery Part I – Anatomy	1 – 2	I & II	
SURG 7621	DM General Surgery Part I – Pathology	1 – 2	I & II	
SURG 7622	DM General Surgery Part I – Physiology	1 – 2	I & II	
SURG 7623	DM General Surgery Part I – Principles of Surgery	1 – 2	I & II	
SURG 7624	Clinical Research Project	3 – 5	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
SURG 7625	Casebook	3 – 5	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
SURG 7626	DM General Surgery Pat II	3 – 5	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I

2. The programme consists of two parts:
 - a. The first part of the programme normally occupies four (4) semester or two (2) years. The Part I examination is taken at the end of the fourth semester (two years) but no later than three (3) years after entry into the programme. Residents must complete the DM Part I after three (3) years of the commencement of the programme.
 - b. The second part of the programme, normally of three (3) years duration, is spent exclusively in the SPECIALTY. A maximum of one year may be spent in an approved training programme at another institution (regionally or internationally) provided there have been satisfactory in-course assessments.

Candidates will be eligible to sit the Part II examination at the end of the three years in Part II (i.e. at the end of Year 5), but not greater than four years (at the end of Year 6) after successful completion of the Part I examination.
3. During the second part of the programme the trainee must submit one of the following at least six (6) months before the final (Part II) examination, either:
 - a. A case book of twenty (20) cases or as determined by the Specialty Board. These cases should cover the range of pathology seen in the practice of general surgery. Five of the cases submitted may be rare cases of unique clinical relevance that may have important educational content suitable for journal publication. The book should not exceed 300 pages;
OR
 - b. A clinical project report. This option should have been previously agreed on at the commencement of the Part II programme by the SPECIALTY Board and the project carried out under the guidance of a supervisor appointed by the Campus Committee for Graduate Studies and Research on the recommendation of the SPECIALTY Board in Surgery;
OR
 - c. A casebook of ten cases and one (1) clinical research project e.g. a pilot project not exceeding 8,000 words or as determined by the Specialty Board. The latter could provide the basis to conduct a Clinical Research Project on clinical material to be later developed into a publication. The students' research project or their book of twenty cases or their book of ten cases and clinical research project MUST be submitted through TURNITIN or some plagiarism software. The report must be included in the submission. Three (3) copies on CD have to be submitted.
4. The option chosen must have been previously agreed to by the School of Graduate Studies and Research and the work carried out under the guidance of a supervisor approved by the Board. Following the submission of the work the examiners may:
 - a. accept the work, and allow the candidate to proceed to examination;
 - b. accept the work, with minor changes. The student can proceed to the exam and submit the corrected version three (3) months from the date of the examination; or
 - c. reject the work and the candidate has six (6) months to make the corrections and resubmit for assessment. He/ She cannot proceed to exam.
5. Candidates must have reached a satisfactory standard during the in-course assessments before being allowed to enter for the Part II examination.
6. Before being admitted to the Part II examination, all trainees are required to submit a tabulation of all operations performed/ assisted by them and certified by their supervisor during the period of training. During the first two (2) years of the programme in General Surgery the trainee will rotate through any six to eight (6 - 8) of the following specialties for a period of THREE (3) months EACH:
 - a) General Surgery (six [6] months mandatory)
 - b) Orthopaedics
 - c) Pathology (highly recommended)
 - d) Neurosurgery
 - e) Cardiothoracic Surgery
 - f) Paediatric Surgery
 - g) Plastic Surgery
 - h) Urology
 - i) Otolaryngology
 - j) Anaesthetics/ICU (highly recommended)
 - k) Elective period of three (3) months
 - l) Any other specialty approved by the specialty board for general surgery

7. Training will normally take place at the Eric Williams Medical Sciences Complex or at the Port-of-Spain or San Fernando General Hospitals, or at institutions in the region recognised by the University for this purpose. However, an elective period of up to one (1) year may be spent at institutions within or without the Caribbean approved by the School for Graduate Studies and Research, provided that prior approval has been obtained from the Board. This elective period is limited to the penultimate year for trainees in General Surgery. Institutions may be recognised for part or the entire training programme. The Specialty Board in Surgery will keep a list of approved institutions and appointments for the guidance of candidates. This list will be updated from time to time as necessary.
8. Each DM candidate can have a maximum of forty-two (42) calendar days or six (6) weeks leave per annum. A candidate in the DM part I; is allowed a maximum of two (2) weeks or fourteen (14) calendar days in every three (3) month rotation up to six (6) weeks per year. A candidate in the DM Part II is allowed a maximum of three (3) weeks in every six (6) months).
9. Each DM candidate is expected to fully participate in journal presentations, oncology and radiology multidisciplinary team meetings and morbidity and mortality meetings, grand rounds, research activities and tutoring of the undergraduates.
10. Details of the programmes may be obtained from the Chairman of the Specialty Board or the School of Graduate Studies and Research.
11. The clinical responsibilities of the candidate will be defined by the Head of Department/Consultant of the institution of employment.

Exemptions

1. Candidates who have completed periods of study in recognised hospitals or institutions may apply to the School of Graduate Studies and Research for exemption from the appropriate section of the programme.

Leave of Absence

(Refer to the [University Regulations](#))

1. A student may apply for leave of absence from the programme for academic or personal reasons. Applications should be submitted through the Specialty Board and the FMS Committee for Graduate Studies to the Campus Committee for Graduate Studies and Research. The application must be accompanied by a statement of the reason for the application. Appropriate recommendations will be made by the Specialty Boards through the Faculty Committee for Graduate Studies, to the Campus Office.
2. Leave of absence shall not be granted for more than one academic year in the first instance. A candidate may apply to the Campus Committee for leave of absence for a second year through the Specialty Boards and the Faculty Committee for Graduate Studies, but further extensions will be at the discretion of the Specialty Board.
3. Candidates requesting Leave of Absence should submit their application no later than the third week of the semester.
4. Students who absent themselves without permission may have their names removed from the register of graduate students.
5. A candidate who has been absent from the programme for more than six weeks in any one year will be considered to have failed to fulfil the programme's requirements for that year and will be required to extend the time for completion of his or her programme.

Deferral

- i. Deferral should be requested at least 6 weeks before the examination. Students who have deferred an examination must sit same within one year of the deferral being approved.

Teaching Methods

The programme is heavily based on self-directed learning and, it requires each DM candidate to fully participate in all areas of teaching and learning. These include:

1. Teaching ward rounds
2. Mortality and Morbidity conferences
3. Multidisciplinary meetings
4. Grand rounds
5. Journal clubs
6. Operative Surgery Classes
7. Principles of Surgery Classes
8. Resident research day
9. Tutorials in specific subject areas as needed
10. Participation in ABSITE EXAMS annually
11. Attend recognised workshops (ATLS/Surgical Skills Course/Laparoscopic Course/Statistics Course)
12. Attend local, regional and international conferences
13. Publish in peer reviewed journals
14. Availability of SCORE website for learning and testing materials
15. End of rotation evaluation by consultant in charge of unit

EVALUATION OF PROGRESS

The evaluation process occurs at the end of each six-month period, where the resident's progress will be documented, and this is used as an objective way to attest to suitability to progress to final exams.

1. Written Exams and supplemental oral exams can be done at discretion of supervisors.
2. Regular annual individual review and feedback by supervisors.
3. American Board of Surgery in-service exam (ABSITE) yearly in February/March.

Continuous Assessment

Trainees will be assessed at the end of each rotation and annually by the department. Those with unsatisfactory records will be encouraged to improve but, if poor performance persists, they will be asked to withdraw from the programme.

Final Examinations

PART I

The Part I examination will consist of a Written or MCQ and Oral component of the following:

- a. Section A – Principles of Surgery
- b. Section B – Anatomy, Basic Pathology, Physiology (including Biochemistry)

The students must pass Section A, and at least two parts of Section B to qualify for entry into the second part of the programme.

SURG 7620, 7621, 7622, 7623 PART I

The Part I examination will consist of a written and oral component. Students must sit the Part I Examination no later than three (3) years after entering the programme.

Candidates **MUST** successfully complete SURG 7620 (Anatomy), SURG 7621 (Pathology), SURG 7622 (Physiology), and SURG 7623 (Principles of Surgery), to proceed to the DM Part II General Surgery. It is stipulated that each candidate has **TWO (2) attempts** of the Part I examination. A candidate who has his first attempt at the exam and is not successful at this first setting will have to re-sit the exam as follows:

- a. A candidate who successfully completes three components, one of which is Principles of Surgery will re-sit the failed exam **six (6) months** from the date of the last sitting, i.e. if the exam was written in May/June, the re-sit will be in November/December and vice versa. This candidate will be allowed to proceed to the DM Part II pending the re-sit.
- b. A candidate who successfully completes three components at the exam, not including Principles of Surgery, will re-sit **six (6) months** from the date of the last sitting, i.e. if the exam was written in May/June, the re-sit will be in November/December and vice versa. This candidate will **NOT** be allowed to proceed to the DM Part II pending the re-sit.
- c. A candidate who successfully completes two components, one of which must be Principles of Surgery at the exam and the examiners, at their meeting have deemed that this candidate requires only minor remediation, that candidate will re-sit the two failed components in **six (6) months** from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in November/December and vice versa. This candidate will **NOT** be allowed to proceed to the DM Part II pending the re-sit.
- d. A candidate who successfully completes two components at the exam not including Principles of Surgery will re-sit the two components in **one (1) year** from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the subsequent year.
- e. A candidate who successfully completes only one component of the exam will re-sit the three failed components **one (1) year** from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the subsequent year.
- f. A candidate who fails all four components at the first sitting will have to re-sit all components **one (1) year** from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the subsequent year. If the candidate performed extremely badly, he/she may be given an opportunity to exit the programme.
- g. The examination **MUST** be completed within **ONE Calendar Year** of the **First Attempt**.

SURG 7626 PART II

The Part II examination has three (3) components:

- a) SURG 7624 Research project/ SURG 7625 Casebook - (Twenty Cases or Ten Cases and a Clinical Research Project)
- b) Written Exam
- c) Oral Exam

The candidate must have submitted the research project or casebook to qualify to sit the exam in accordance with the guidelines in the programme and structure and curriculum point 3. He or she must also be deemed fit to sit the exam by the Specialty Board.

Candidates must have completed the following three (3) requirements before being allowed to sit the Part II examination:

- i. Satisfactory continuous in-course assessment
- ii. Satisfactory completion of the Part I assessment
- iii. Accepted Clinical Research

The written exam consists of two (2) papers both of which must be passed.

The oral exam is conducted by the External and Regional Examiners. The logbook of cases should be presented at this exam.

Candidates **MUST** successfully complete all components of the exam to be awarded the Doctor of Medicine General Surgery. If the candidate fails, the exam he/she will be given the opportunity to re-sit in one (1) year. There are only **TWO (2) attempts** for this exam. Students who do not pass Part II within five (5) years of completion of Part I will normally be required to withdraw from the programme. Failure at the second attempt will necessitate withdrawal from the programme. The student may not reapply to the programme after withdrawal.

Outline for Case Reports and Research

In accordance with University guidelines, the entire casebook:

- a) Should not exceed 20,000 words but must not be less than 15,000 words
- b) Must be typewritten and printed on one side only of good quality white bond paper (usually 20lb. weight) 8 ½" x 11" (Standard Letter Size) or 8.27" x 11.69" (A4/International Size).
- c) The top, bottom and right-hand margins should not be less than 1" or 2.5 cm in width and the left-hand margin should be 2" or 5 cm in width.
- d) The typeface should be either Times New Roman or Cambria size 12.
- e) The spacing throughout the text is double line spacing however single spacing is permitted for footnotes, bibliographic items; appendix and sub sections of the Table of contents

The department regulations for the casebook are in accordance to the Regulations for the University of the West Indies and those ascribed to in the Faculty of Medical Sciences Regulations for Postgraduate Programmes.

ALL CASE REPORTS AND RESEARCH ARE TO BE SENT THROUGH TURNITIN. A PLAGIARISM REPORT MUST BE AVAILABLE FOR EACH CASE AS WELL AS YOUR RESEARCH.

Criteria for Award of Degree

1. A candidate is deemed to complete the programme if they have met the following requirements:
 - a. Year 1 – Satisfactory performance in the Part I Year I Examination;
 - b. Year 2 – Pass ALL parts of the Part I Year 2 Examination in the same sitting;
 - c. Clinical Research project – acceptance and submission of the corrected project;
 - d. Part II – Pass each written paper, pass the clinical examination and pass the oral examination in the same sitting.
2. Students who do not pass Part II within four (4) years of completion of Part I will normally be required to withdraw from the programme.
3. Failure at the second attempt will necessitate withdrawal from the programme.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Professor Shamir Cawich – Professor of Surgery;
Coordinator DM General Surgery
Bungalow 5, Port of Spain General Hospital
Email: shamir.cawich@sta.uwi.edu
Tel: 623-7870

Ms. Melrose Yearwood (Orientation)
Building 14, Second Floor/Room 205
Tel: 645 3232 Ext. 2864 or 663-4319
Email: melrose.yearwood@sta.uwi.edu

DM Medical Oncology

Department of Clinical Medical Sciences

Qualifications for Entry

Candidates must have successfully completed DM Part I (General Internal Medicine) (Two Years)

Date of Entry: The date of entry will normally be January or July and as determined by the date when the candidate begins to work in a recognised post in an accredited hospital. Application to enter the programme may be made before securing such a post. The applicant may then receive from the School of Graduate Studies and Research, on the recommendation of the Faculty Committee for Graduate Studies, provisional acceptance for entry to the programme contingent on the obtaining of an accredited post. After the successful applicant has secured an accredited post, the date of entry will be fixed by the School of Graduate Studies and Research. The applicant will be informed of the date of entry by the relevant Campus Registrar. For the purposes of the above two paragraphs, the successful applicant must furnish evidence of being in a recognised post.

Exemptions: Candidates who have completed all or part of another graduate course in Internal Medicine or who have gained relevant experience at this level in a recognised institution may apply for exemption from that part of the D.M. programme. The specialty Board in Internal Medicine will consider such applications. Applications would be considered on an individual basis.

Aims and Objectives of Programme

A trainee who has completed the DM programme in Medical Oncology must achieve competence in the practice of Medical Oncology at specialist level, including a working knowledge of:

- relevant scientific and clinical principles,
- research methods,
- sites and types of cancer,
- evaluation and assessment methods, and
- multidisciplinary treatment.

The candidate's clinical competencies at specialist level are to include clinical assessment, multidisciplinary treatment planning, treatment of cancer with medical therapies (chemotherapy, hormonal therapy, and molecular targeted therapies), management of complications and emergencies, response assessment, supportive care and end-of-life care, bioethics, communication and professionalism, management and leadership skills, and competence in relevant practical procedures, in keeping with the ASCO/ESMO recommendations for a global core curriculum in Medical Oncology.

The candidate is to achieve knowledge and competence in areas as follows:

- Theoretical knowledge and practical skills for the competent, safe, ethical and compassionate practice of medical oncology at the level for which they have been trained.
- A capability to manage cancer patients comprehensively, including:
 - the complications associated with malignant disease and its treatment;
 - rehabilitation and palliative care.
- psychosocial aspects.
- Knowledge of the epidemiology, aetiology, pathology and natural history of human neoplasia.
- Familiarity and skills in the choice of all necessary and available diagnostic aids in the diagnosis and management of cancer.
- Expertise in medical oncology at the required level based on the available resources and knowledge of the whole scope of medical oncology.
- Familiarity with the role of surgery, radiation oncology and other medical disciplines involved in the management of neoplastic diseases.
- Capacity to interpret current advances in cancer care and research (clinical, laboratory or basic).
- A basic knowledge of the different statistical methods used in the interpretation of data related to cancer (with special emphasis on planning and interpretation of clinical trials).
- Sufficient interest, knowledge and skills to contribute to future developments of medical oncology.

Programme Structure and Curriculum

The four-year D.M. programme is a full-time residency programme, of which approximately two thirds of this time is spent in Internal Medicine under the direct supervision of Internal Medicine consultants. The rest of the programme consists of rotations through acute specialties relevant to Internal Medicine.

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
Year I				DM GIM Part 1
MEON 7209	Medical Oncology – Introduction	I	I & II	
	Radiation Oncology	I	I & II	
	Haematology	I	I & II	
Year II				
MEON 7210	Medical Oncology – Intermediate	II	I & II	
	Urologic / Gynaecologic Oncology	II	I & II	
	Palliative Care	II	I & II	
MEON 7212	Elective / Clinical Research Project	II	I & II	
Year III				
MEON 7211	Advanced Medical Oncology I	III	I & II	
	Advanced Medical Oncology II	III	I & II	

Teaching Methods

The DM programme in Medical Oncology is intended to produce graduates who are competent to practice as specialists in Medical Oncology. The DM in Medical Oncology degree is awarded upon satisfactory completion of the programme in accordance with the requirements of the Specialty Board, including passing the exit examination (Part 2).

Linkage to ASCO/ESMO Global Curriculum

The ASCO/ESMO Global Curriculum for Training in Medical Oncology is the primary source material for this syllabus and will guide the content of the DM programme; any updates to the ASCO/ESMO curriculum are applicable to the programme. The ASCO/ESMO Curriculum Log Book will be used to document trainee progress through the competencies outlined by the curriculum.

Syllabus (Programme Content)

- i. *Scientific principles of oncology*
 - Cancer biology and genetics including normal cell biology including genomics and cell cycle regulation, principles of carcinogenesis including inherited and acquired genetic anomalies and environmental, chemical and physical factors, tumour immunology, and cancer epidemiology including cancer statistics, staging systems, and epidemiologic methods

- ii. *Principles of cancer diagnosis and management*
 - Multidisciplinary approach to cancer treatment, clinical assessment, response assessment including RECIST criteria and quality of life, and knowledge of the effects of age and co morbidity on treatment.
 - Role of the pathologist and of histopathologic, cytologic, immunological and molecular methods in the diagnosis of cancer
 - Imaging methods used in the diagnosis, staging and follow-up of cancer
 - Principles of surgical oncology
 - Principles of radiation biology, physics, external beam radiation, brachytherapy, and the management of patients receiving radiation or chemoradiation therapy
 - All aspects of chemotherapy including indications, goals, pharmacology, dose, schedule, drug development, resistance, and toxicity, and practical aspects of the administration of chemotherapy and the management of patients receiving it
 - Hormonal therapies including relevant endocrinology and pharmacology, indications, and clinical applications
 - Basic science and clinical use of targeted molecular therapies

- iii. *Clinical research*
 - Principles of Phase I, II, III trials including protocol development and implementation, data collection, statistical analysis, and ethical and regulatory issues
 - Tumour assessment, measurement, imaging and surrogate end points

iv. *Cancer types and sites*

- Epidemiology, pathogenesis, pathology, tumour biology and genetics, familial syndromes (where applicable), prevention and screening(where applicable), diagnosis, staging, prognostic and predictive factors, stage-specific management, complications, response assessment, follow-up, survivorship, rehabilitation/reconstruction, supportive and palliative care, and all relevant special issues with regard to each type and site of malignant or premalignant neoplasm, including the following:
 - Acute leukaemia and myelodysplasia
 - AIDS-related malignancies
 - Anal cancer
 - Biliary cancer
 - Bladder and other urothelial cancer (ureter, renal, pelvis)
 - Bone sarcomas
 - Breast cancer
 - Central nervous system malignancies
 - Cervical cancer
 - Chronic leukaemia
 - Colorectal cancer
 - Oesophageal cancer
 - Gallbladder cancer
 - Gastric cancer
 - Germ cell tumours
 - Hairy cell leukaemia
 - Head and neck cancers including all subsites
 - Hepatocellular cancer
 - Hodgkin's lymphoma
 - Lung cancer
 - Melanoma
 - Mesothelioma
 - Myeloma
 - Neuroendocrine tumours including carcinoid tumours
 - Non-Hodgkin's lymphomas
 - Ovarian cancer
 - Pancreatic cancer
 - Penile cancer
 - Prostate cancer
 - Renal cell cancer
 - Salivary gland tumours
 - Soft tissue sarcomas
 - Thymomas and thymic cancer
 - Thyroid cancer
 - Unknown primary
 - Uterine cancer
 - Vaginal and vulvar cancer

v. *Emergencies and complications*

- CNS complications- brain metastases, spinal cord compression
- Cardiovascular complications- pericardial tamponade, cardiomyopathy, others
- Airway and pulmonary complications
- Gastro-intestinal complications
- Management of malignant effusions
- Local therapy of metastases
- Paraneoplastic syndromes
- Infections, neutropenic sepsis
- Infertility/sexual dysfunction
- Other complications of therapy: adrenal insufficiency, alopecia, bleeding, drug extravasation, fatigue, hypersensitivity, hyperthyroidism, lymphedema, nephrotoxicity, nausea and vomiting, oral complications (mucositis, xerostomia), pulmonary toxicity, neurotoxicity, skin toxicity
- Second malignancies

vi. *Geriatric oncology and related issues*

vii. *Supportive care*

- Pain assessment and management
- Treatment of symptoms and complications including anorexia, cachexia, coagulation disorders, constipation, delirium, depression, diarrhoea, dysphagia, dyspnoea, fatigue, nausea, vomiting, malignant bowel obstruction
- Antiemetic therapy
- Growth factors including evidence-based use
- Transfusion therapy and apheresis
- Nutritional support
- Fertility and sexual issues
- Complementary therapies
- End-of-life care

viii. *Survivorship and follow-up* including surveillance, second cancers, psychosocial and economic issues

- ix. *Psychosocial aspects of cancer* including psychosocial support, cultural and spiritual issues, coping mechanisms, and integration of care including family members, pastoral care, nursing support, counselling, social work, mental health professionals, hospice, and cancer support groups
- x. *Bioethical, legal and economic issues* including informed consent, research ethics, end-of-life and life-support legal issues, cost effectiveness, conflict of interest, and professionalism
- xi. *Issues affecting fertility and sexuality* including risks of infertility or sterility, prevention and treatment strategies, indications for referral to specialist fertility services, physical and psychological impact of cancer and its therapy on sexuality, ability to counsel patients regarding these issues
- xii. *Communication skills* including communication of prognosis, options, goals of care, delivery of bad news
- xiii. *Practical procedures* including chemotherapy administration, use of vascular access devices, bone marrow aspiration and biopsy, lumbar puncture and Ommaya reservoir, tumour assessment, thoracentesis and paracentesis
- xiv. *Use of information systems* including electronic medical records, patient resources, health care professional resources

Reading List

The trainee is expected to read comprehensively on the subjects outlined in the syllabus, as well as new and emerging developments and issues in Internal Medicine and Medical Oncology, from relevant sources which include (but are not limited to) the following:

- Core journals in Medical Oncology and Internal Medicine: Journal of Clinical Oncology, Annals of Oncology, Lancet, Lancet Oncology, Cancer, British Journal of Cancer, New England Journal of Medicine
- Other relevant international journals as appropriate, in Medical Oncology, Internal Medicine, Radiation Oncology, and Haematology: e.g. Blood, International, Journal of Radiation Oncology, Biology and Physics, British Journal of Haematology
- Relevant local and regional sources including oncology-related articles in regional journals, local Cancer Registry data
- Proceedings of major annual conferences: ASCO and ESMO annual meetings
- A major textbook of Medical Oncology e.g., Principles and Practice of Oncology by Devita, Hellman and Rosenberg or Clinical Oncology by Abeloff
- A short oncology textbook e.g. Specialist Training in Oncology by Ajithkumar, Cancer and its Management by Tobias (or alternatively a longer manual e.g. Manual of Clinical Oncology by Casciato or the Bethesda Handbook of Clinical Oncology)
- An oncology/chemotherapy drug manual: e.g. de Vita, Lexi-Comp, Skeel, or Boyiazdis
- A radiation oncology manual e.g. Hansen & Roach
- A current Internal Medicine text e.g. CMDT, Harrison, Oxford, Davidson, Kumar or Cecil.
- Current evidence-based guidelines (NCCN, ASCO, ESMO)
- An oncology handbook or manual e.g. Oxford Handbook of Oncology by Cassidy, Manual of Clinical Oncology by Casciato, Bethesda Handbook of Clinical Oncology by Abraham
- Postgraduate Haematology by Hoffbrand and Lewis
- Oxford Handbook of Clinical Haematology by Provan
- Essential Haematology by Hoffbrand and Pettit
- Oxford Handbook of Palliative Care
- Handbook for Principles and Practice of Gynaecologic Oncology by Levine

Research Project

The candidate is expected to complete an original research project or audit in an area relevant to cancer and/or its treatment in Trinidad, Tobago or the Caribbean. A minimum length of 2000 words is required, and the project is to be suitable for publication in a local or international peer-reviewed journal. This project is to be completed by the beginning of Year 4. A supervisor is to be appointed, and must be a faculty member. The project topic and supervisor are to be approved by the programme director.

Clinical Attachments

All rotations must be undertaken at facilities affiliated to UWI or designated and approved by the Programme Coordinator, which have been deemed to have adequate standards of clinical practice. The primary sites must have adequate pathology services, modern diagnostic radiology services, access to nuclear imaging, blood banking and blood therapy facilities, facilities for clinical pharmacology and tumour immunology, access to surgical and radiotherapy services, and multidisciplinary tumour conferences.

Year 1 (Resident)

Medical Oncology - Introduction (6 months)

This course will have the equivalent length of ONE semester of academic time (6 credits).

Radiation Oncology - Introduction (3 months)

This course will have the equivalent length of 1/2 semester of academic time (3 credits).

Haematology - Introduction (3 months)

This course will have the equivalent length of 1/2 semester of academic time (3 credits).

Year 2 (Senior Resident)

Medical Oncology - Intermediate (3 months)

This course will have the equivalent length of 1/2 semester of academic time (3 credits).

Urologic / Gynaecologic Oncology (3 months)

This course will have the equivalent length of 1/2 semester of academic time (3 credits).

Palliative Care (3 months)

This course will have the equivalent length of 1/2 semester of academic time (3 credits).

Elective (3 months) (Overseas elective preferred if funding available)

This course will have the equivalent length of 1/2 semester of academic time (3 credits).

Year 3 (Resident)

Advanced Medical Oncology I (6 months)

This course will have the equivalent length of 1/2 semester of academic time (6 credits).

Advanced Medical Oncology II (6 months)

This course will have the equivalent length of 1/2 semester of academic time (6 credits).

Pre-requisites	The Candidate should have passed the DM Medicine Part 1 exam. The prerequisite courses are: INMD 7655
Course load/semester; part-time/full-time (credits):	All courses are full-time. Year 1 courses – MEON 7209 Introductory Medical Oncology (6) Radiation Oncology-Introductory (3) Clinical Haematology-Introductory (3) Year 2 courses –MEON 7210 & MEON 7212 Intermediate Medical Oncology (3) Urologic /Gynaecologic oncology (3) Palliative Care rotation (3) Elective period (3) Year 3 courses –MEON 7211 Advanced Medical Oncology I (6) Advanced Medical Oncology II (6)
Number of failures per semester:	In accordance with regulations for postgraduate degrees.

Re-sit Examinations:	Re-sit exams will be held at the next regular exam sitting.
Assessment procedures for courses, coursework, fieldwork, internships, or other:	<p>Medical Oncology: Introductory Coursework evaluation (pass/fail)</p> <p>Radiation Oncology: Introductory Coursework evaluation (pass/fail)</p> <p>Clinical Haematology-Introductory Coursework evaluation (pass/fail)</p> <p>Medical Oncology: Intermediate Coursework, viva voce examination (pass/fail)</p> <p>Gynaecologic Oncology Rotation Coursework evaluation (pass/fail)</p> <p>Urologic Oncology Rotation Coursework evaluation (pass/fail)</p> <p>Palliative Care Rotation Coursework evaluation (pass/fail)</p> <p>Elective Confirmation of completion from host institution (pass/fail)</p> <p>Medical oncology: Advanced I & II Coursework evaluation viva voce examination (pass/fail)</p> <p>Final DM examination in Medical Oncology: Paper 1: MCQ Paper 2: Viva voce Paper 3: Clinical examination</p> <p>Each paper will be scored out of 100 with a pass mark at 50%. A pass in the final examination will be awarded if the student passes in each of paper 1 – 3.</p>
Assessment procedures for Research Project (as appropriate):	This will consist of a dissertation that in the opinion of the Programme Director is at postgraduate standard and should lead to publication in a peer-reviewed journal. The paper will be scored in accordance with the requirements for MSc Dissertations and a final mark will be awarded for this paper (4).
Time limits for completion:	The candidate must complete the programme within 6 years of start date.

Criteria for Award of Degree

Distinctions

These will be awarded using accepted UWI standard according to the Regulations for Graduate Diplomas and Degrees.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Curt Bodkyn

Department of Medicine, 2nd Floor, Building 67, EWMSC

Tel: 663-4332

Email: curt.bodkyn@sta.uwi.edu

DM Medical Microbiology

Department of Paraclinical Sciences

Qualifications for Entry

Candidates must be graduates of medical schools fully registered by Medical Board of Trinidad and Tobago or fully registered medical practitioners in one of the territories of the Commonwealth Caribbean. Applicants will be eligible for entry into the DM Medical Microbiology programme after completing their internship and must be employed in the regional health authority (RHA) as house officer working in the microbiology laboratory. Candidates will be required to apply through the established postgraduate admissions portal of the University of the West Indies and may be required to attend an interview to be eligible for selection to the programme.

Aims and Objectives of Programme

The aim of Doctor of Medicine programme in Microbiology (DM Medical Microbiology) is to produce specialist clinicians who are competent to practice at consultant and specialist level in the different disciplines of medical microbiology – bacteriology, mycology, parasitology and virology. These graduates must be able to take personal responsibility for their own activities and to work well as part of a team in the development and delivery of the laboratory medicine component of healthcare services. The programme is a part of the UWI's response to expand access and to advance specialist training to its stakeholders in the country, Caribbean region and beyond. It will place the institution in pole position in an increasingly competitive market in the region. Medical Microbiologists trained in the DM Microbiology programme would provide critically needed professional specialist and subspecialty skills in the medical microbiology field. It will also provide the needed support to academic departments and laboratories throughout the region.

Programme Structure and Curriculum

On acceptance to the programme, there will be a six-month probation period during which the candidate's performance will be assessed at regular intervals. Any candidate who fails the overall assessment during this period of probation will be required to withdraw from the programme. The programme will be a minimum of four years from the date of entry. Throughout the programme, candidate must hold recognized posts in accredited hospital's microbiology laboratory or be on the elective period approved by the Board for Graduate Studies and Research.

The programme is divided in to two parts: Part I and Part II comprising the following modules:

1. DM Medical Microbiology Part I (Bacteriology, Virology, Immunology, Parasitology, Mycology) – MICR 7206.

The DM Part-I is of two years (year 1 and 2), excluding leave, and must include training in:

- Laboratory Rotations with a minimum of:
 - Bacteriology (6 months)
 - Virology (3 months)
 - Immunology (6 weeks)
 - Parasitology (3 weeks)
 - Mycology (3 weeks)
- Lectures / Presentations
- Slide Sessions
- Practical Bench works or rotations
- Interactive and Supervised Laboratory Reporting Sessions
- Microbiology Research Group (MRG): once weekly
- Journal Club: once weekly
- Attendance at Infection Control meetings
- Relevant Clinico-pathological Conferences (CPCs)
- Select Research Project: Submit proposal & begin work

Special Training modules (Compulsory to be completed between Year 1 and 2):

- Infection Control
- Antimicrobials
- Mycobacteriology
- Molecular biology applied to infectious diseases (MEDC 6822)
- Research methods for health sciences (MEDC 6924)
- Biostatistics and data analysis for health sciences (MEDC 6925)

2. DM Medical Microbiology Part II (Bacteriology, Virology, Immunology, Parasitology, Mycology [related infection control and antimicrobial stewardship]) – MICR 7207.

- Laboratory Rotations with a minimum of:
 - Bacteriology (6 months)
 - Virology (3 months)
 - Immunology (6 weeks)
 - Parasitology (3 weeks)
 - Mycology (3 weeks)
- Clinical calls
- Continue participating in Sexually Transmitted Infections (STI) clinics rotation/services. Interactive and Supervised Laboratory Reporting Sessions
- Microbiology Research Group (MRG): once weekly
- Do at least one Journal Club presentation
- Attendance at Infection Control Meetings
- Slide Sessions
- Case discussions
- Relevant Clinical-Pathology Conferences (CPCs)
- Presentations/ Lectures

Year 3: Complete (Clinical Research Project MICR 7208)

Electives*

- Clinical calls and rounds in critical units such as the Intensive unit (ICU) and Neonatal Intensive Units (NICU).
- Signing out
- Relevant Clinical-Pathology Conferences (CPCs)
- Journal Club presentations
- Microbiology Research Group (MRG)
- Attendance at Infection Control Meetings [and antimicrobial stewardship meetings/rounds]
- Case Discussions

** It may include a period not exceeding one year, ideally in the third year, spent as an elective (at accredited regional or international institutions), providing that approval has been obtained from the Faculty Subcommittee for Graduate Studies and Research. Such approval must be obtained at least six months prior to the commencement of the elective period. The elective period may be spent in a hospital-based or stand-alone clinical laboratory, which can provide the student with experience not readily available at the hospital at which candidate is employed.*

Year 4:

- Clinical calls and rounds in critical units such as the Intensive unit (ICU) and Neonatal Intensive Units (NICU).
- Continue in STI clinics rotation/services
- Microbiology Research Group (MRG)
- Journal Club Presentation(s)
- Case Discussion: once weekly
- Laboratory management
- Quality assurance/ accreditation
- Antimicrobial Policy
- Infection Control Policies

Teaching Methods

The program will be delivered through didactic online and face to face lectures, seminars, tutorials, and case-based teachings including slide seminars. Emphasis is on practice-based learning.

Teaching materials will include cases accessioned in the department in all of the subspecialty areas of microbiology in the laboratory as well as textbooks and internet-based resources. The practice component will require the provision of microscopes, other tools and instruments as well as safety equipment for residents to function optimally in the program.

Continuous Assessment

Each student will officially be assigned to a supervisor, who is a member of the Department or fulltime academic member of the Faculty. The supervisor will provide academic guidance as to the choice or assignment of rotations, the elective period and direction in the conduct of their research and all other relevant matters.

Regular assessment of each candidate will be made especially of bench activities that must be signed off by the supervisors

EXAMINATIONS

All Regulations and Assessment Procedures must be consistent with those provided in the University of the West Indies Regulations for Graduate Degrees and Diplomas. However, for the DM (Microbiology) evaluation and examinations will be the main objective assessment of progress in the programme.

- (a) Evaluation of progress/ Continuous assessment – Continuous assessment of the candidate's performance is carried out by his/her supervisor and recorded and reported every semester. If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:
- Counselling/academic warning in writing
 - Remedial work
 - Repeating the unsatisfactory rotations
 - Withdrawal from the programme if poor performance persists

(b) Final examinations

Before admission to any examination, candidates must be certified by their supervisors as having completed the relevant parts of the program. Examinations are in two parts, Part I and Part II (DM Medical Microbiology). They are normally held twice per year in May/June and November/December.

And the final examinations for both Part 1 and Part 2 will be cross campus based.

The Part I examination is held at the end of the second year and comprises:

- Two Written papers (Paper 1-Essay, Paper 2: Multiple Choice Exam)
- A practical examination: Paper 3: Laboratory exam
 - 3A: Bacteriology; 3B: Virology; 3C: Objective Structured Practical Evaluation (OSPE)
- An oral examination

The candidate must pass all components of the examination, that is, the Written papers, the Practical and the Oral to have passed the examination.

Final examinations for the DM medical Microbiology (DM PART II) consists of:

A completed clinical research project report submitted in advance for grading by internal and external examiners for the partial fulfilment of the requirement for the award of the degree of Doctor of Medicine (DM) in Medical Microbiology.

Clinical research project report (MICR 7208).

All students must submit a clinical research project to the Campus Committee for Graduate Studies through the FMS Committee for Graduate Studies, at least six months before the final (Part II) examination. This should form a distinct contribution to the knowledge of the subject presented. It must be of satisfactory literary standard and should attain standards suitable for publication in a peer reviewed journal. It should not exceed 20,000 words but must not be less than 12,000 words and must follow the University's Guide (2015) for the Preparation of Thesis, Research Papers and Project Reports. This clinical research project must be submitted for the partial fulfilment of the requirement for the award of the degree of Doctor of Medicine (DM) in Medical Microbiology

Following the submission of the work, the examiners may:

- (a) Accept the work and the student proceed to the examinations
- (b) Accept the work with modification, which must be carried out in the time specified and resubmitted
- (c) Reject the work with recommendations regarding changes, additions, or revisions necessary for acceptance. A date for resubmission will be determined by the examination board in Microbiology.

The clinical research project report should be submitted for assessment at least six months before the date of the final examination. If the work is found to be unsatisfactory and requires major changes, the student will not be allowed to sit the final examination and a new date will be set.

The Part II examination must be attempted for the first time within one year of the acceptance of the research project.

- Paper 1: Written paper with 5 Essay Questions
- Paper 2: Written paper with 6 Essay Questions
- Paper 3: Laboratory exam (conducted over 2 days)
 - 3A: Bacteriology; 3B: Virology; 3C: Objective Structured Practical Evaluation (OSPE)
- Paper 4: Oral Exam

The candidate must pass all components of the examination, that is, the written papers, the Practical and the Oral to have passed the examination. Should any candidate fail the Part I or Part II examination at the first attempt, completion of this part must be within one calendar year of the first attempt.

Criteria for Award of Degree

Students will be considered as having successfully completed the programme when the following THREE requirements have been met:

- (a) Satisfactory performance of all rotations.
- (b) Acceptance of the Clinical Research Project Report.
- (c) Satisfactory performance in the Part I and II examinations.

Contact Information

Professor Patrick Akpaka

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Unit of Pathology/Microbiology
Department of Paraclinical Sciences
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Ms. Ayanna Gomez

Pathology/Microbiology Unit
Department of Paraclinical Sciences
Tel: 645-2640 ext 2258
Email: ayanna.gomez@sta.uwi.edu

DM Neurosurgery

Department of Clinical Surgical Sciences

Qualifications for Entry

The applicant to the Clinical programmes should be:

- a) A graduate in medicine of a University or Medical School recognised by the University of the West Indies.
- b) Should be Medical Board Registered in Trinidad and Tobago (MBTT). Criteria for registration should be obtained from the relevant medical council. For non-nationals, full registration must be achieved before application. (MBTT advises that three (3) years of temporary registration is a pre-requisite to **apply** for full registration.)
- c) The date of entry will normally be September. Applications must be made by March 30th of the year of proposed start. Interviews will be conducted by the department and the most eligible candidates selected. The date of acceptance is determined by the date from which the candidate begins to work in a recognised (Neurosurgery) post in an accredited hospital.
- d) Applications to enter the programme may be made before securing such a post; however, the applicant will receive from the Office of Graduate Studies and Research, on the recommendation of the Faculty Committee for Graduate Studies, provisional acceptance for entry to the programme contingent on obtaining an accredited post. The candidate will only receive a confirmed placement in the programme once evidence has been provided by the applicant that they have secured an accredited post. The applicant will then be notified of their ability to register for the programme in either Semester I or II.
- e) All applicants must have one (1) year post internship of hospital-based medicine – preferably in a surgical specialty.

Aims and Objectives of Programme

1. The Doctor of Medicine Neurosurgery (NEU) aims to produce competent independent specialist Neurosurgeons with the experience, knowledge, skills and attributes necessary to provide the local community and region with the highest standard of safe, ethical and comprehensive care and leadership. The training is extensive to include all aspects of Neurosurgery and graduates will be fit to practice Neurosurgery in Trinidad and region. They will be employable at a Consultant level.

The overarching aim of this programme is to develop and maintain a sustainable training programme to produce Neurosurgeons to serve Trinidad & Tobago and the wider Caribbean, for the present and the future.

The goals and objectives are to ensure that after completing this programme that candidates will be able to:

- a. Demonstrate the knowledge and skill set of trained Consultant Neurosurgeons
- b. Recognise and diagnose neurosurgical conditions using a patient's history, clinical examination and special investigations.
- c. Manage and effectively treat neurosurgical conditions, using either conservative or surgical interventions
- d. Demonstrate an understanding of the multidisciplinary approach in the management of patient problems, through interpersonal and communication skills in a team.
- e. Aid in the national and regional development of public policies which are relevant to the Neurosurgical specialty.
- f. Foster research, as well as the importance of practicing Evidence-Based Medicine through journal reviews, case report, audits, retrospective and prospective studies
- g. Apply the use of appropriate professional behaviours; including honesty, compassion, level-headedness, decorum and respect for others.

Teaching Methods

- a. Didactic lectures using multimedia at the San Fernando General Hospital, Port-of-Spain General Hospital and Eric Williams Medical Sciences Complex
- b. Clinical teaching in the Clinics, Operating theatres and on the Wards, Microsurgery Lab training
- c. Morbidity and Mortality Meetings, Grand Rounds, Multi-Disciplinary Meetings
- d. Journal Clubs
- e. Use of electronic resources, such as My eLearning for self-directed learning

Course of Study

- a. The programme will take place at the Port-of-Spain General Hospital, SWRHA and the Eric Williams Medical Sciences Complex or at institutions in recognised by the University for this purpose. Institutions may be recognised for all or part of the programme.
- b. Up to one (1) year's elective period may be spent at institutions in or out of the Caribbean approved by the appropriate Specialty Boards. Students on electives are required to register during their elective year.
- c. Each DM student must spend 46 weeks each year in the programme. Students can have a total of six weeks leave per annum (3 weeks in each semester). A leave of absence must be sought from the University of the West Indies when students would like to have leave which exceeds six (6) weeks.
- d. A candidate who is in the DM Neurosurgery programme can apply for a leave of absence but the candidate is to note the following:
 - i. In the DM Part I, a candidate is entitled to either one (1) academic year leave of absence or a leave of one (1) semester in each new academic year. The student who requests a leave of absence should have their first attempt of the Part I examination no later than six (6) months after the original date that the candidate was due to have aforementioned exam. The exception is for the students who have their leave approved for one (1) year then that candidate will have their first attempt no later than one (1) year from the original date of the exam.
 - ii. In the DM Part I, a candidate who undertakes the DM Part 1 surgery examination is unsuccessful in their first attempt and takes a leave of absence of one (1) semester will be required to sit the examination within six months or at the next sitting.
 - iii. In the DM Part I, a candidate who requests a deferral of the exam must sit that examination within six months or at the next sitting. A candidate who requests a leave of absence will not be allowed to defer the examination at the expected sitting.
 - iv. In the DM Part II, a student is entitled to a leave absence of either one (1) academic year or one (1) semester in each new academic year. In the DM Neurosurgery a candidate shall be entitled to a have leave of absence over the duration of the Part II of no more than two (2) academic years which shall not run concurrently or four (4) semesters. All candidates who have accessed this leave should sit their Final Part II examination no later than a minimum of one (1) year and a maximum of two (2) years from the date they were originally due to write the exam.
 - v. In the DM Part II, a candidate who requests a deferral of the exam must sit that examination within six months or at the next sitting. A candidate who requests a leave of absence will not be allowed to defer the examination at the expected sitting.
 - vi. The duration of all the DM programmes varies from a minimum of four (4) years to a maximum of six (6) years. The DM Neurosurgery is a minimum of six (6) years and a maximum of nine (9) years which is independent of the maximum time of each part i.e. to include leave of absence, deferrals as well as candidates who may have to repeat components. Candidates who do not complete the programme at this time will be required to withdraw.

DM Part I (Two years)

1. During this period, students will be assigned to rotations in General Surgery and the surgical subspecialties.
 - a. Three (3) months must be spent as a resident in Neurological Surgery.
 - b. A rotation in critical care medicine may be taken through the Section of Anaesthesia and Intensive Care.
 - c. A minimum of nine (9) months must be spent in General Surgery.
 - d. A maximum of six (6) months may be spent in the Orthopaedics, ENT, or Accident and Emergency Department.
2. A maximum of three months may be spent in the Department of Pathology.
3. Provided that the in-course assessments are satisfactory, the Part I examination is taken at the end of two (2) years.

COURSE CODE	SUBJECT	EXAMINATION	WEIGHTING	PASS/FAIL
SURG 7620	Anatomy	Written Exam	50%	Pass / Fail
		OSCE	50%	
SURG 7621	Pathology	Written Exam	50%	Pass / Fail
		OSCE	50%	
SURG 7622	Physiology	Written	50%	Pass / Fail
		OSCE	50%	
SURG 7623	Principles of Surgery	Written	50%	Pass / Fail
		OSCE	50%	

4. Candidates MUST successfully complete SURG 7620, SURG 7621, SURG 7622 and SURG 7623 to proceed to the DM Part II Neurosurgery. It is stipulated that each candidate has two (2) attempts at the first sitting of the Part I. A candidate who has his first attempt at the exam and is not successful at the first setting will have to re-sit the exam as follows:
- A candidate who successfully completes three components of the exam will re-sit the one which has been failed six (6) months from the date of the last sitting, i.e. if the exam was written in May/June the re-sit will be in November/December and vice versa.
 - A candidate who successfully completes two (2) components, one of which must be Principles of Surgery at the exam and the examiners at their meeting have deemed that this candidate requires some remediation that candidate will re-sit the other two (2) components, which have been failed six (6) months from the date of the last sitting, i.e. if the exam was written in May/June the re-sit will be in November/December and vice versa.
 - A candidate who successfully completes two (2) components of the exam and the examiners during their meeting have deemed that this candidate is weak and requires extra remediation that candidate will re-sit the two (2) components which have been failed one (1) year from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the next academic year and if the exam was written in Nov/Dec the re-sit will be in Nov/Dec of the next academic year.
 - A candidate who successfully completes only one (1) component of the exam will re-sit the three (3) failed components one (1) year from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the next academic year and if the exam was written in Nov/Dec the re-sit will be in Nov/Dec of the next academic year.
 - A candidate who fails all four (4) components on the first sitting will have to re-sit all components one (1) year from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the next academic year and if the exam was written in Nov/Dec the re-sit will be in Nov/Dec of the next academic year.
 - Candidates are only allowed **TWO (2) attempts** at this exam. A candidate who is unsuccessful after their second attempt will be asked to withdraw from the programme.

DM Part II (Four years)

- The DM Neurosurgery will be divided into modules for year three to six. In year five (5) the students are to undertake their elective, as well as submit their casebook for examination. The structure of years three to six is as follows:

YEAR	CODE	TITLE	ASSESSMENT
3 – 7	NEUR 7624	Clinical Research Project	<ul style="list-style-type: none"> Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I Pass/Fail
3 – 7	NEUR 7625	DM Neurosurgery Part II	<ul style="list-style-type: none"> Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I Pass/Fail
3 - 7	NEUR 7628	Casebook	<ul style="list-style-type: none"> Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I Pass/Fail

- i. The candidates will spend nine (9) months in every year in Neurosurgery and may spend the next three (3) months to rotate in radiology, general surgery and an elective subject.
- ii. Each student will be required to keep a log book, which will record operations for which the student performed/assisted per year which will be defined and under the guidance of their supervisor.
- iii. At the start of Year 3 students are required to choose their research topic in consultation with the Specialty Board, which will have to be approved by the Specialty Board.
- iv. All students are required in their fifth or penultimate year (only) to undertake an elective which must be at minimum three (3) months and up to one (1) year at institutions in or outside of the Caribbean provided that prior approval is obtained from the Specialty Board in Surgery. The students are required to obtain such approval at least six (6) months prior to the commencement of the elective period.
- v. The final year of the Part II programme must be spent under direct supervision of the Lecturers in the Department.
- vi. All DM Neurosurgery candidates must submit to the programme co-ordinator, at least six (6) months before the final (Part II) Examination, ONE of the following:
 - a. A casebook of about twenty (20) cases **OR** about ten (10) cases and a research/project report. These cases should cover the range of pathology seen in the practice of Neurosurgery. A requirement is that, of the cases submitted, five (5) may be rare cases of unique clinical relevance that may have important educational content suitable for journal publication. The book should not exceed 300 pages.
 - b. A research/project report that the student will like to undertake should have been previously agreed on at the commencement of the Part II programme by the Specialty Board in the Department and their supervisor. It is to be carried out under the guidance of a supervisor as well as in accordance with the regulations in the Faculty of Medical Sciences Ethics Committee and the Board of Graduate Studies and Research. A student is also required to request permission from each of the different Regional Health Authority Ethics Boards in order to undertake their research project.
- vii. The format of the casebook/project report should conform to the University regulations dealing with the preparation of projects and dissertations. It should not exceed 20,000 words but must not be less than 15,000 words. The casebook containing the either twenty (20) cases or ten (10) cases and a research/project report must be typewritten and printed on one (1) side only of good quality white bond paper (usually 20lb. weight) 8 ½" x 11" (Standard Letter Size). The same grade of paper should be used throughout the casebook.
- viii. The margins are to be 2" on the left and the top, bottom and right-hand margins should not be less than 1".
- ix. The cases written in the casebook are to follow the format of case reports, which are submitted to journals for publication, i.e. they are to be subdivided into four (4) major areas: introduction, case history, discussion and conclusion. The references should follow the format of the West Indian Medical Journal, i.e. Vancouver Style.
- x. Students are required to attend the Research/ Casebook classes which will provide guidance on the steps involved in the preparation of the casebook. Each individual case is to be reviewed with their Consultant(s) and/or Supervisor(s) for approval before being included in their casebook. Each should be entered in a log and signed as satisfactorily completed by the supervisor. The writing of the casebook offers the student the opportunity of choosing cases of clinical relevance and to express an opinion, based on careful evaluation of the current literature. The case reports should be of high quality suitable for publication in a peer reviewed journal.
- xi. The submission of the work can be marked by the programme coordinators:
 - a. Accepted: the work is passed allowing the student to proceed to the examination or
 - b. Rejected: the work is given recommendations regarding changes, additions, or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.

- xii. The completed casebook/project report should be submitted for assessment at least six (6) months before the date of the final examination. If the work is found to be unsatisfactory and requires major revision the student will not be allowed to sit the final examination and a new date will be set.
- xiii. Students who enter the Part II will be required to attend the yearly Research and Ethics Class.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Robert Ramcharan

Lecturer (Neurosurgery);
Coordinator DM Neurosurgery
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Ms. Melrose Yearwood

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DM Obstetrics & Gynaecology

Department of Clinical Surgical Sciences

Qualifications for Entry

The applicant should be:

- a well-rounded medical graduate of The University of the West Indies or a University or Medical School recognised by The University of the West Indies.
- fully registered in the territory or territories in which training will take place.
- employed by the respective Ministry of Health or Regional Health Authority in territories where there is no The University of the West Indies teaching hospital.
- working in the Department of Obstetrics and Gynaecology at recognised teaching institutions of The University of the West Indies.
- must have worked for at least one year after internship in a related field of Medicine such as General Surgery or Paediatrics.

Aims and Objectives of Programme

The aim of the Doctor of Medicine is to train doctors in the specialty of Obstetrics and Gynaecology to a level that allows them to provide clinical support and administrative leadership to Obstetrics and Gynaecology. Successful DM candidates will practice at the level of consultants in Obstetrics and Gynaecology. Further details on this programme are available from the Department of Clinical Surgical Sciences.

Programme Structure and Curriculum

This 4-year full-time programme consists of the following course:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
OBGY 7630	DM Part I Obstetrics and Gynaecology	1 - 2	I & II	-
OBGY 7635	DM Part II Obstetrics and Gynaecology	2	I & II	Pass in OBGY 7630
OBGY 7636	Casebook	3 - 4	I & II	Pass in OBGY 7630
OBGY 7637	Clinical Research Project	3 - 4	I & II	Pass in OBGY 7630

Teaching Methods

Programme Structure

- Spread over four years' post-internship
- Using a modular (or block) approach
- Vertical strands linking the various modules or blocks from Year 1-4

Components

- Core curriculum- 'need-to-know'
- Integrated, concurrent or sequential elective(s)

Core Curriculum

- Building on prior learning (constructivist approach)
- Integration of the required competencies, skills, knowledge and attitudes required of a generalist obstetrician and gynaecologist with essential Basic Sciences
- Assessment using a multi-modal approach; application of instruments that are valid, defensible, reliable and practical

Electives

- This may be in the form of a Block (sequential) in the Year 3 or it may be a concurrent or integrated elective.

Rationale for Electives

- To create an opportunity for further study in an area of interest.
- To spend time abroad whether in the region or elsewhere to broaden ones' experience
- To participate or collaborate in research or audit
- To provide a foundation for sub-specialty training post DM.
- To pursue another degree or course, for example, MBA or Medical Education.
- To 'make-up' or 'catch-up' in areas of weaknesses in core.

Continuous Assessment

Students will be assessed throughout the DM Programme based on the following course components:

Year 1:

Foundation: General Overview of Obstetrics and Gynaecology and Relevant Basic Sciences

Year 2:

2A Development of Investigative and Surgical Skills 1.

2B Obstetrics 1: Common Obstetrical Problems

2C Gynaecology: Common Gynaecological Problems

Year 3:

3A Reproductive Endocrinology

3B Advanced Investigative and Surgical Skills 2

3C Project/ Electives

Year 4:

4A Obstetrics 2: Advanced Obstetrics

4B Gynaecological Oncology

4C Urogynaecology

Yearly appraisals will be done to determine the student's performance. Having satisfactorily performed throughout the year, Residents will be given the approval to proceed in the programme and on to the final Examinations upon successful completion of these components.

Final Examinations

The examination consists of:

- Part I (OBGY 7630) - Examination in the Basic Sciences of Physiology, Anatomy, Pathology, Embryology, etc.
- Part II (OBGY 7635) - Written papers in Obstetrics and Gynaecology, Structured Extended Oral Examinations and the presentation of a Casebook records and commentaries.

1. Doctor of Medicine (DM) Part I has two papers -

Written paper: multiple choice questions (MCQs), extended matching items (EMIs), structured answer questions (SAQs). Candidates must pass both Papers (1 and 2) to be awarded a Pass. Candidates are eligible to sit the DM Part 1 Examination after a minimum of 12months from the date of registration/entry into the DM programme.

Maximum number of attempts at DM Part I is two. There would no longer be an Oral Examination at the DM Part I Level for borderline or failing candidates.

2. Doctor of Medicine (DM) Part II has two papers -(One in Obstetrics and the other in Gynaecology)

Consists two written papers and structured extended oral examination (SEOE).

The part II Examination must be attempted for the first time, 3 years after successfully completing the Part I Examination.

The traditional Casebook may be amended to include a detail account of research project in the form of a prospective study instead of commentary which is usually in the form of a review of the literature. The study should commence immediately after the candidate passes the DM Part I Final Examination. The title of the study as well as the methodology would be determined by the candidate in collaboration with his or her supervisor. It should be the intention that this study should be published in a refereed journal. Casebook should include only a short description of up-to-date hospital statistics (such as annual report), with comparison on national and/or regional figures, description of standard procedures with a focus on safety and governance. Casebook must also include ten (10) Obstetrics and ten (10) Gynaecology cases managed by the candidate.

Criteria for Award of Degree

Candidates must pass all components of both Parts I and II of the DM Examinations within the allocated time frame **AND** obtain an accepted Casebook in order to be awarded the Degree in the Doctor of Medicine in Obstetrics and Gynaecology.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Sunil Persad

Programme Coordinator

Email: sunil.persad@sta.uwi.edu

Ms. Cheryl Gilkes

Unit of Obstetrics and Gynaecology

First Floor, Mt. Hope Women's Hospital

Tel: 662-6418

Email: obsgynfms@gmail.com

DM Ophthalmology

Department of Clinical Surgical Sciences

Qualifications for Entry

- i. MBBS from accredited medical school
- ii. Full medical board registration
- iii. Previous resuscitation courses recommended (ACLS, APLS, ATLS).

Aims and Objectives of Programme

- To provide a programme that facilitates the acquisition of knowledge, understanding, skills and attitudes to a level appropriate to an ophthalmic specialist, who has been fully prepared to begin his/her career as an independent ophthalmologist.
- To promote the appreciation of audit and research.

Programme Structure and Curriculum

The DM Ophthalmology is a 6-year full-time programme covering the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITES
MEDC 6661	DM Ophthalmology Part I	1 and 2	I & II	-
OPHT 7662	DM Ophthalmology Part II	3 - 6	I & II	Pass in MEDC 6661
OPHT 7663	DM Ophthalmology Part III	4 - 6	I & II	Pass in OPHT 7662
OPHT 7664	Clinical Research Project	3 – 6	I & II	Pass in MEDC 6661
OPHT 7665	Casebook	3 – 6	I & II	Pass in MEDC 6661

Part I MEDC 6661 (2 years)

This involves the basic sciences, including:

- Anatomy of the eye, adnexae, visual pathways and associated aspects of head and neck and neuroanatomy. It will also include embryology;
- Physiology of the eye, adnexae and CNS, including general physiology (laws and phenomena). It will include organisation, function, mechanism of action, regulation and adaptations of structures and their components tissues relevant to the clinical methods of assessment (e.g. acuity, visual fields, electrodiagnostics, intraocular pressure);
- Medicine in association with ocular disease (diabetes, hypertension, collagen vascular disease, rheumatology, thyroid, sickle cell anaemia, etc.);
- Basic principles of pathology (with emphasis on ocular pathology), microbiology, biochemistry.

During this period, the student is introduced to basic medical and surgical ophthalmology including Optics and Refraction. The student will acquire basic clinical and surgical skills in ophthalmology.

By the end of the first year, the student must have chosen a research topic and would be expected to commence work on the project.

The student is expected to commence writing up of the cases for the case book. On average, 2 cases per year is expected. Part 1 will be examined at the end of 2 years. Candidates will have to achieve an adequate standard of performance before they can proceed to the second part of the programme.

Part II OPHT 7662 (1 year)

This part covers:

- The optics, theory and practice of refraction (including contact lens),
- Application of physical and physiological optics to clinical management,
- Principles of instrumentation such as the direct and indirect ophthalmoscope, keratometers, focimeters, microscope.

The trainee will continue working on the research project and case book. During this period the candidate will continue to gain clinical and surgical ophthalmology skills

Part III OPHT 7663 (3 Years)

This final part consists of

- Three (3) years, 2 of which is spent locally and a compulsory one-year period which is spent overseas. The candidate will be expected to cover all aspects of the medicine, therapeutics and surgery for the eye, adnexae and visual pathways for specific diseases processes. Candidates should be enhancing and consolidating their knowledge with respect to aetiology, pathogenesis, genetics, clinical manifestations, differential diagnosis, investigations and treatment options (medical and surgical).
- Enhancing surgical skills, audit (including annual audit of the trainees cataract surgery outcomes) and research will be emphasised.

The trainee will continue working on the research project and case book.

The candidate will be examined at the end of the three years.

Teaching Methods

Ward Round Teaching, General and Specialist (Retina, Glaucoma and Paediatrics) Clinics, Journal Club (once per month), Didactic Lectures, Case Presentations, Grand Rounds, Invited speakers (local, regional and international), Minimum of 2 theatre sessions per week. In addition to this either a minor ops or Laser list may be done.

Continuous Assessment

OSCARs (Ophthalmic Surgery Continuous Assessment Record) and multi-source feedback. The trainees surgical log book is examined at each OSCAR.

Final Examinations

Part I

This exam will be undertaken after 2 years in the programme.

Section A:

1. Principles of Ophthalmic Surgery

Section B:

1. Anatomy of Head and Neck (including Embryology and Neuro anatomy)
2. Physiology of eye, adnexae, CNS including related general physiology.
3. Ocular Pathology, Basic Pathology, Microbiology, Biochemistry, General Medicine in association with Ocular Pathology.

Candidates must pass Section A and pass at least 2 parts of Section B to qualify for entry into the second part of the programme. Candidates who fail one subject of Section B may be allowed to commence Part II of the programme, but must re-sit and pass the relevant section within 1 year to be allowed to continue in the programme. Candidates who have not completed the Part I exam within one calendar year of the first sitting of the examination will normally be required to withdraw from the programme.

Part II

This exam will be undertaken at the end of the 3rd year in the programme.

Section A: Basic Optics (Principles of Instrumentation) & Theory of Refraction

Section B: Practical Refraction exam & OCSE

The candidate must pass the Practical Refraction and OSCEs in order to pass the Part II examination.

Part III

The Part III examination will be undertaken at the end of the 6 years of training, provided that the candidate has:

1. Successfully passed the Part I and II Examinations
2. Satisfactorily completed their one-year extra-regional period
3. Satisfactorily completed their Casebook and Research Project
4. Acceptance of the candidate's certified list of required operative procedures

The Part III Examination will consist of 3 parts:

- a) Essay Paper
- b) Oral Examination
- c) Clinical Examination including OSCEs

The OSCE stations will include but not be limited to:

1. Anterior Segment
2. Neuro ophthalmology
3. Strabismus
4. Posterior Segment

Candidates must pass all sections of the OSCE to pass the Part III examination. All 3 sections of the Part III must be passed in order to attain a pass at the Part III level. If the candidate has to re-sit the examination, he will need to re-sit the entire examination, not only the parts that were failed.

Criteria for Award of Degree

1. Successful completion of the final examination
2. The completed corrected casebook (with all 10 cases) and the research project must be submitted NO LESS than 6 months before the Part III examination.
3. A one-year extra-regional period MUST be undertaken. This is usually done in the 6th year of the programme, however, it may be started in the 5th year or earlier. It is important that the student starts to arrange their elective at least 1-2 years in advance. So by the 4th year of the programme the process should have been started.

The extra-regional training site MUST be approved by the Specialty board or DM Ophthalmology Programme coordinator at least 6 months before the extra-regional training commences.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Desirée C. Murray

Coordinator/Senior Lecturer in Ophthalmology

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Ms. Melrose Yearwood

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Tel: 645-3232 Ext. 2864 or 663-4319

Email: melrose.yearwood@sta.uwi.edu

DM Orthopaedics

Department of Clinical Surgical Sciences

Qualifications for Entry

The applicant should be a graduate in medicine of a University or Medical School recognised by the University of the West Indies. Fully registered in the territory or territories in which training will take place. Applicants for entry to the DM programme in Orthopaedics must have completed twelve (12) months at House Officer level in an approved post, of which at least six (6) months must have been in Orthopaedics with the remaining period in Accident and Emergency, General Surgery, Neurosurgery or Urology. The applicant should show evidence of having successfully completed an Advanced Trauma Life Support (ATLS) course as well as a Basic Surgical Skills (BSS) course.

The date of entry will normally be determined by the date when the applicant begins work in a recognised post in an accredited hospital. An applicant may apply to enter the programme before securing such a post. The applicant may then receive from the Office of Graduate Studies and Research provisional acceptance for entry to the programme contingent upon obtaining an accredited post. After the applicant has secured such a post, the date of entry will be determined by the Office of Graduate Studies & Research.

Aims and Objectives of Programme

To provide the candidate with the knowledge and skills to enable independent specialist orthopaedic practice.

Programme Structure and Curriculum

The DM Orthopaedics is a 6-year full-time programme covering the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
SURG 7620	DM General Surgery Part I – Anatomy	1 - 2	I & II	
SURG 7621	DM General Surgery Part I – Pathology	1 – 2	I & II	
SURG 7622	DM General Surgery Part I – Physiology	1 – 2	I & II	
SURG 7623	DM General Surgery Part I – Principles of Surgery	1 – 2	I & II	
ORSU 7619	DM Part II Orthopaedic Surgery Part II	3 - 6	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
ORSU 7607	Clinical Research Project	3-6	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
ORSU 7608	Casebook	3 – 6	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I

Part 1 (2 years)

This is common with the DM in General Surgery: Residents will rotate through any six to eight (6-8) of the following specialties for a period of three (3) months each:

- a. General Surgery
- b. Accident and Emergency
- c. Neurosurgery
- d. Cardiothoracic Surgery
- e. Orthopaedic Surgery
- f. Paediatric Surgery
- g. Plastic Surgery
- h. Urology
- i. Otolaryngology
- j. Anaesthetics/ICU
- k. Pathology

Part 2 (4 years)

During the second part of the programme the resident will be expected to remain within the Specialty of Orthopaedics. Students will spend a minimum of six (6) months but not exceeding twelve (12) months on one unit. The resident will rotate amongst the approved teaching institutions spending at least twelve (12) months at any one institution. It is expected that during this time students will have exposure to the following:

- a. Trauma
- b. Joint Reconstruction
- c. Paediatric Orthopaedics
- d. Sports Medicine
- e. Spine

Teaching Methods

Training will normally take place at the following approved institutions:

1. Eric Williams Medical Sciences Complex
2. Port-of-Spain General Hospital
3. San Fernando General Hospital
4. Sangre Grande Hospital (a maximum of 18 months ONLY)

Continuous Assessment

Residents are subject to continuous workplace-based assessment (WPBA) of performance by their supervisor. The six (6) month Review of Competence Progression (ARCP) will form the basis of progression within the programme. Residents are expected to have the following documents available for assessment:

- Current curriculum vitae
- Log Book
- Completed assessment forms

If the assessment is found to be unsatisfactory, the SPECIALTY Board may recommend one or more of the following:

- Counselling/academic warning in writing
- Remedial work
- Repeating of the unsatisfactory rotations
- Withdrawal from the programme

All DM residents are expected to take part in the following activities:

- Journal club meetings
- Multidisciplinary team meetings
- Morbidity and mortality meetings
- Teaching of undergraduates
- Attendance at local, regional and international courses and conferences

Final Examinations

- a. The Part I examination is taken at the end two (2) years and consists of a written paper and oral examination in the following disciplines:
 - Section A: Principles of Surgery
 - Section B: Anatomy, Physiology, Pathology
- b. Residents must pass Section A and at least two (2) parts of Section B to enter into the second part of the programme. (see guidelines under DM General Surgery)
- c. Residents must sit the Part 1 Examination no later than two and a half years (2 ½) after entering the programme.
- d. The following four (4) requirements must be completed before the Part II examination:
- e. A satisfactory standard of in-course assessments
 - Log Book
 - Completed Case Book
 - Completed Research Project
- f. Residents must conform to the University Regulations on Examinations for Higher Degrees. Any further details can be obtained from the UWI Orthopaedic Unit.

- g. The Part II examinations are taken at the end of a minimum of four (4) years after passing the Part I examination. It consists of the following:
- Assessment of
 - Log Book
 - Case Book (to be submitted a minimum of six months prior to scheduled sitting of DM II Examinations)
 - Research Project (to be submitted a minimum of six months prior to scheduled sitting of DM II Examinations)
 - Written Papers 1 and 2
 - Oral Examination
- h. Residents must pass all components of the Part II examination.
- i. Residents who have not completed the Part I or II examination within one (1) calendar year of their last sitting of the respective examinations will normally be required to withdraw from the programme.
- j. Residents will not usually be allowed more than two (2) attempts at any one examination. Failure at the second attempt will necessitate withdrawal from the programme.
- k. Residents may not reapply to the programme after withdrawal.

Criteria for Award of Degree

Residents will be considered as having successfully completed the programme when the following four (4) requirements have been met:

- Satisfactory performance of all rotations
- Acceptance of the certified Log Book
- Acceptance of the Case Book
- Acceptance of the Research Project
- Satisfactory performance in the Part I and II examinations

Failure to complete the programme in the prescribed times will require withdrawal from the programme.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Mr. Trevor Seepaul

Programme Coordinator

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DM Otorhinolaryngology (ENT)

Department of Clinical Surgical Sciences

Qualifications for Entry

The applicant should be:

- a. A graduate in Medicine of a University or Medical School recognised by The University of the West Indies.
- b. Fully registered in the territory or territories in which training will take place.
- c. Must have worked six (6) months post internship in Otorhinolaryngology specialty

Aims and Objectives of Programme

1. Identify and select medical doctors who are eligible and interested in becoming Otorhinolaryngologists.
2. Teach trainees to diagnose Otorhinolaryngological conditions using history, clinical examination and special investigations.
3. Teach trainees to treat Otorhinolaryngological conditions using conservative means or surgical interventions as appropriate.
4. Emphasize the importance of practicing evidence-based Medicine using Journal review and research techniques.
5. Instil the significance of a multidisciplinary approach for the management of patient's problems and to develop the interpersonal and communication skills to work on such a team.
6. Train specialists who are able to help the development of public policies relevant to the specialty, both nationally and regionally.
7. Develop professional behaviour, including honesty, compassion, level headedness, decorum and respect for others.
8. Teach trainees to employ clear, concise, accurate and precise verbal communication with colleagues, other staff, patients and patients' family members.

Programme Structure and Curriculum

The DM Otorhinolaryngology is a 6-year full-time programme covering the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
SURG 7620	DM General Surgery Part I - Anatomy	1 – 2	I & II	-
SURG 7621	DM General Surgery Part I – Pathology	1 – 2	I & II	-
SURG 7622	DM General Surgery Part I – Physiology	1 – 2	I & II	-
SURG 7623	DM General Surgery Part I - Principles of Surgery	1 - 2	I & II	-
OTLG 7632	DM Otorhinolaryngology Part II	3 - 6	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
OTLG 7630	DM Otorhinolaryngology Part II – Research Project	3 - 6	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
OTLG 7631	DM Otorhinolaryngology Part II – Casebook	3 - 6	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I

Part 1 (2 years)

This is common with the DM in General Surgery: Residents will rotate through any of the following specialties for a period of three (3) months each with a mandatory six (6) months in Otolaryngology:

- a) Otolaryngology
- b) General Surgery
- c) Accident and Emergency
- d) Neurosurgery
- e) Cardiothoracic Surgery
- f) Maxillofacial Surgery
- g) Anaesthetics/ICU
- h) Any other Specialty as approved by the Specialty Board

Part 2 (4 years)

During the second part of the programme the resident will be expected to remain within the specialty of Otorhinolaryngology.

One year is allocated for electives at local, regional or international institutions as approved by the Specialty Board.

Teaching Methods

Training will normally take place at the approved institutions including face-to-face and virtual modalities.

The methods employed will include the following:

- Clinic teaching
- Operative surgery
- Ward rounds
- Attendance to courses
- Teaching Undergraduates
- Journal clubs
- Morbidity and Mortality Conferences
- MDT meetings
- Local, Regional and International meetings
- Attend recognized workshops
- Regular Resident presentations to Lecturers
- Publish in peer reviewed journals
- Self-directed learning

Continuous Assessment

Residents are subject to continuous work-place based assessment (WPBA) of performance by their supervisor. The Annual Review of Competence Progression (ARCP) will form the basis of progression within the programme. Residents are expected to have the following documents available for assessment:

- a. Current Curriculum Vitae
- b. Log Book
- c. Completed Assessment Forms

If the assessment is found to be unsatisfactory, the Specialty Board may recommend one or more of the following:

- a. Counselling/Academic warning in writing
- b. Remedial work
- c. Repeating of the unsatisfactory rotations
- d. Withdrawal from the programme

All DM residents are expected to take part in the following activities:

1. Journal Club Meetings
2. Multidisciplinary Team Meetings
3. Morbidity and Mortality Meetings
4. Teaching of Undergraduates
5. Attendance at local, regional and international courses and conferences

Final Examinations

- a. The Part 1 examination is taken at the end of two (2) years and consists of a written paper and oral examination in the following disciplines:
 - Section A: Principles of Surgery
 - Section B: Anatomy, Physiology, Pathology
- b. Residents must pass Section A and at least two (2) parts of Section B to enter into the second part of the programme.
- c. Residents must sit the Part 1 Examination no later than two and a half years (2 ½) after entering the programme.
- d. The following four (4) requirements must be completed before the Part II examination:
 - A satisfactory standard of in-course assessments
 - Log Book
 - Completed Case Book
 - Completed Research Project

- e. Residents must conform to the University Regulations on Examinations for Higher Degrees. Any further details can be obtained from UWI Otorhinolaryngology Unit.
- f. The Part II examinations are taken at the end of a minimum of four (4) years after passing the Part I examination. It consists of the following:
 - Assessment of
 - Log book
 - Case book
 - Research Project
 - Written Papers 1 and 2
 - Oral Examination
- g. Residents must pass all components of the Part II examination.
- h. Residents who have not completed the Part I or II examination within one (1) calendar year of their last sitting of the respective examinations will normally be required to withdraw from the programme.
- i. Residents will not usually be allowed more than two (2) attempts at any one examination. Failure at the second attempt will necessitate withdrawal from the programme.
- j. Residents may not reapply to the programme after withdrawal.

Criteria for Award of Degree

Residents will be considered as having successfully completed the programme when the following four (4) requirements have been met:

- a. Satisfactory performance of all rotations.
- b. Acceptance of the certified Log Book.
- c. Acceptance of the Case Book.
- d. Acceptance of the Research Project.
- e. Satisfactory performance in the Part I and II examinations.

Failure to complete the programme in the prescribed times will require withdrawal from the programme.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

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DM Paediatrics

Department of Clinical Medical Sciences

These regulations MUST be read in conjunction with the cross-campus regulations governing postgraduate clinical programmes "The UWI, Faculty of Medical Sciences, Regulations for Postgraduate Clinical Programmes"

Qualifications for Entry

Applicants must be fully registered with the Medical Board of Trinidad and Tobago and have a minimum of one year experience in paediatrics post internship.

Aims and Objectives of Programme

AIMS

This four (4) year training programme aims to provide the trainee with the knowledge and skills to function competently in General Paediatrics at consultant level. This shall be achieved through adequate experience and training in preventive and curative child health, including the physical, intellectual, emotional and social aspects impacting the child and family. Priority is accorded to the major health needs of children in the Caribbean.

OBJECTIVES

At the end of a successful training programme the graduate shall have obtained:

- advanced training and experience in the diagnosis and management of sick children presenting with physical and psychosocial disorders.
- experience and skills necessary to develop and maintain hospital and community-based preventive and curative Child Health services, which are realistically related to the available resources.
- the ability to develop, promote and maintain primary health care services for children and families.
- training and experience in teaching Paediatrics and Child Health to medical students and graduates as well as other members of the health team.
- training in the principles of applied research methodology.
- adequate opportunities to develop leadership qualities with an objective and imaginative approach to Child Health problems within the context of the local customs and practices in Trinidad and Tobago, the Caribbean and internationally.

Programme Structure and Curriculum

Students would be required to register for the following courses in this programme which is completed within 4 to 6 years, with a maximum of 3 years in DM Paediatrics Part 1 and a maximum of 3 years in DM Paediatrics Part 2:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
PAED 7617	DM Paediatrics Part I	1 and 2	I & II	Fully registered with the Medical Board of Trinidad and Tobago and a minimum of one year of paediatric experience post internship.
PAED 7622	DM Paediatrics Part II	3 and 4	I & II	Passed DM I
PAED 7618	DM Paediatrics *Research Project	1 - 4	I & II	Passed DM I

Teaching Methods

- Work-based training
- Tutorials
- Case-based learning (on-site as well as online)
- Journal clubs for literature review
- Online learning via MyeLearning

Part I (Years 1 & 2) – Training consisting of seven (7) 3-month rotations with 3 months leave per academic year taken as 3 weeks every 6 months (in accordance with [the university leave regulations](#))

- General Paediatrics – 9 months (3 rotations)
- Neonatology – 6 months (2 rotations)
- Accident and Emergency – 3 months (1 rotation)
- Primary Health Care – 3 months (1 rotation)

Part II (Years 3 & 4) – Training consisting of seven (7) 3-month rotations, among those listed below, with 3 months leave per academic year taken as 3 weeks every 6 months (in accordance with [the university leave regulations](#))

- General Paediatrics – 9 months (3 rotations)
- Neonatology – 3 months (1 rotation)
- Accident and Emergency – 3 months (1 rotation)
- Elective I (Year 3) – 3 months (1 rotation)
- Elective II (Year 4) – 3 months (1 rotation)

All rotations MUST be completed in units accredited by the Specialty Board of the DM Paediatric programme.

Trainees are expected to

- actively participate in all academic sessions (tutorials, case presentations and journal club).
- participate in training of undergraduate students.
- participate in continuous and end of clerkship assessment of undergraduate students.

Continuous Assessment

Structured Referee Reports (SRR)

The trainee is expected to submit a SRR on completion of each rotation (every three months). The SRR must be completed by the Consultant for the respective clinical rotation. It is the responsibility of the trainee to submit the signed Report to the CHU Office immediately after the end of the rotation. Trainees MUST pass all rotations for that given year in order to progress to the subsequent year or for eligibility for Part I or Part II examinations.

Attendance

- Undergraduate End of Clerkship examinations – Each trainee is also expected to participate at least 5 times each year in the undergraduate End of Clerkship Objective Structured Clinical Examinations (OSCE).
- Case Presentations – These are delivered at the Weekly Postgraduate Meeting and Monthly UWIDEC (Cross-Campus meetings). Each trainee is expected to present at least one case each academic year.
- Journal Club – Each trainee must review and present one journal at the journal club per academic year.

Trainees must sign the attendance register for all sessions. Trainees must attend at least 75% of all required academic sessions per academic year.

In addition for DM Part I (Years 1 & 2),

Mini-CEX Each trainee is expected to perform at least ten (10) Mini-CEX each year, using the official Evaluation Forms (EF). The evaluations should be spread over the whole period and conducted by at least three (3) different evaluators. The evaluations should cover all the six components of the EF as well as all the systems e.g. Respiratory, Neurology etc., in addition to at least one long history taking session.

In addition for DM Part II (Years 3 & 4),

Long Case Each trainee must complete four continuous assessment long cases per academic year. Trainees must pass four (4) of the eight (8) required cases to be eligible for the DM Part II examination. A trainee who fails more than four long cases must do a further four cases. The trainee must pass four of the eight penultimate cases to be eligible for the DM Part II examination. A candidate who spends, for any reason, more than two years in the DM Part Two training shall continue to be examined on 4 long cases each year until (s)he appears for the final examination.

Candidates must satisfy all continuous assessment requirements at the discretion of the Paediatric Specialty Board for Progression in each academic year.

Final Examinations

The DM Paediatric examination consists of two parts. The trainee must obtain the approval of the Paediatric Specialty Board before (s)he can be admitted to either part of these examinations.

Part I Examination

The Part I examination consists of one MCQ paper, a clinical and oral examination. The candidate must pass ALL components of the examination to pass the examination.

Eligibility for Part I:

- Trainees will be eligible to sit Part I at the end of Year 2 but not later than three (3) years after commencing the programme.
- Satisfactory completion of 21 months of required clinical rotations
- Satisfactory attendance of all required academic sessions/courses.
- Submission of 20 satisfactorily completed Mini-CEX EFs for Years (1 & 2)
- Presentation of a valid APLS Certificate, or equivalent.

Part II Examination

The Part II examination consists of two written papers (MCQ paper and a Key Feature Problems paper), a clinical and an oral examination. The candidate must pass ALL components of the examination to pass the examination.

Eligibility for Part II:

- The trainee must have submitted and passed the Clinical Research Project PAED 7618 and attempt the Part II examination within one year of acceptance of the clinical project. The clinical projects MUST be submitted by June 15, prior to Nov/Dec sitting and December 15 prior to May/June sitting. See regulations 32-38 of "**The UWI, Faculty of Medical Sciences, Regulations for Postgraduate Clinical Programmes**".
- Trainees will be eligible to sit Part II two years after the successful completion of Part I, but no greater than three years after the completion of Part I.
- Satisfactory completion of 21 months of required clinical rotations.
- Satisfactory attendance of all required academic sessions/courses.
- Presentation of a valid APLS Certificate, or equivalent.
- Pass grades in four of eight continuous assessment long cases. These eight (8) long cases contribute to 50% of the final long case in the Part II clinical examination. A ninth (9th) long case delivered as part of the final examination contributes the final 50%.

Criteria for Award of Degree

A candidate is deemed to complete the programme if they have met the following requirements:

- a. Successfully completed all components in DM Part I (PAED 7617)
- b. Successfully completed the Research project (PAED 7618)
- c. Successfully completed all components in DM Part II (PAED 7622)

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

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DM Paediatric Surgery

Department of Clinical Surgical Sciences

Aims and Objectives of Programme

The Doctor of Medicine Degree Programme in Paediatric Surgery – DM (Paed. Surgery) UWI aims to produce competent independent Paediatric Surgeons with the experience, knowledge, skills and attributes necessary to provide leadership and the highest standard of safe, ethical and comprehensive paediatric surgical care locally and internationally. The training will cover all aspects of Paediatric Surgery and graduates will be fit to practice Paediatric Surgery at consultant level internationally. At the outset, the overarching aim of this programme is to produce Paediatric Surgeons to serve Trinidad & Tobago and the wider Caribbean.

The goals and objectives are to ensure that after completing this programme that candidates will be able to:

- (a) Demonstrate the knowledge and skill set of trained Consultant Paediatric Surgeons.
- (b) Recognise and diagnose paediatric surgical conditions using a patient’s history, clinical examination and special investigations.
- (c) Manage and effectively treat paediatric surgical conditions, using either conservative or surgical interventions.
- (d) Demonstrate the multidisciplinary approach in the management of patient problems, through interpersonal and communication skills in a team.
- (e) Aid in the national and regional development of public policies which are relevant to the paediatric surgical specialty.
- (f) Foster research, as well as the importance of practicing Evidence-Based Medicine, through journal reviews, case report, audits, retrospective and prospective studies.
- (g) Apply the use of appropriate professional behaviours; including honesty, compassion, level-headedness, decorum and respect for others.
- (h) Employ clear, concise, accurate and precise verbal communication with colleagues, other staff, patients and patients’ family members.

Qualifications for Entry

The applicant to the Clinical programmes should be:

- (a) A graduate in medicine of a University or Medical School recognised by the University of the West Indies.
- (b) Registered with the Medical Board of Trinidad and Tobago (MBTT).
- (c) The date of entry will normally be January/September. Applications must be made by March 30th of the year of proposed start. Interviews will be conducted by the department and the most eligible candidates selected. The date of acceptance is determined by the date from which the candidate begins to work in a recognised (Paediatric Surgery) post in an accredited hospital.
- (d) Applications to enter the programme may be made before securing such a post; however, the applicant will receive from the Office of Graduate Studies and Research, on the recommendation of the Faculty Committee for Graduate Studies, provisional acceptance for entry to the programme contingent on obtaining a post in an accredited hospital. The candidate will only receive a confirmed placement in the programme once evidence has been provided by the applicant that they have secured a post in an accredited hospital. The applicant will then be notified of their ability to register for the programme in either Semester I or II.
- (e) Applicants will be eligible for entry after completing their MBBS internship. All applicants must have one (1) year post internship of hospital-based medicine.

Programme Structure and Curriculum

The DM Paediatric Surgery is a five (5) year programme covering the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
SURG 7620	DM General Surgery Part I – Anatomy	1 – 2	I & II	
SURG 7621	DM General Surgery Part I – Pathology	1 – 2	I & II	
SURG 7622	DM General Surgery Part I – Physiology	1 – 2	I & II	
SURG 7623	DM General Surgery Part I – Principles of Surgery	1 – 2	I & II	
PASU 7624	Clinical Research Project	3 – 5	I & II	Must pass all four Part I courses
PASU 7625	Casebook	3 – 5	I & II	Must pass all four Part I courses
PASU 7670	DM Paediatrics Surgery Part II	3 – 5	I & II	Must pass all four Part I courses
PASU 7655	Elective	3 – 5	I & II	Must pass all four Part I courses

DM Part I (Two years)

- a. The DM Paediatric Surgery Part I training extends over 2 years before the first examination in the basic Sciences and Principles of Surgery.
- b. Residents in the DM Paediatric Surgery programme will mandatorily spend three (3) monthly rotations in the following specialities, neurosurgery, urology, adult general surgery, cardiothoracic surgery, orthopaedics, paediatric surgery. An optional three (3) month rotation e.g. Pathology or Intensive Care may be facilitated provided mandatory rotations specified are not affected. Only repeating candidates are able to do multiple optional rotations.
- c. Provided that the in-course assessments are satisfactory, the Part I examination is taken at the end of two (2) years.
- d. Candidates MUST successfully complete all modules (**SURG 7620, SURG 7621, SURG 7622, SURG 7623**) to proceed to the DM Part II Paediatric Surgery. Each candidate has two (2) attempts at the first sitting of the Part I. A candidate who completed the first attempt of the exam and is not successful will have to re-sit the exam as follows:
 1. A candidate who successfully completes three components of the exam will re-sit the one which has been failed six (6) months from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in November/December and vice versa.
 2. A candidate who successfully completes two (2) components, one of which must be Principles of Surgery at the exam and the examiners at their meeting have deemed that this candidate requires some remediation that candidate will re-sit the other two (2) components, which have been failed six (6) months from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in November/December and vice versa.
 3. A candidate who successfully completes two (2) components of the exam and the examiners during their meeting have deemed that this candidate is weak and requires extra remediation that candidate will re-sit the two (2) components which have been failed one (1) year from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the next academic year and if the exam was written in Nov/Dec the re-sit will be in Nov/Dec of the next academic year.
 4. A candidate who successfully completes only one (1) component of the exam will re-sit the three (3) failed components one (1) year from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the next academic year and if the exam was written in Nov/Dec the re-sit will be in Nov/Dec of the next academic year.
 5. A candidate who fails all four (4) components on the first sitting will have to re-sit all components one (1) year from the date of the last sitting i.e. if the exam was written in May/June the re-sit will be in May/June of the next academic year and if the exam was written in Nov/Dec the re-sit will be in Nov/Dec of the next academic year
 6. Candidates are only allowed **TWO (2) attempts** at this exam. A candidate who is unsuccessful after their second attempt will be asked to withdraw from the programme.

DM Part II (Three years)

The DM Paediatric Surgery will be divided into modules for year three to five. In year four (4) the residents have the option to undertake their elective overseas. In year five (5) the casebook must be submitted for examination. The structure of years three to five is as follows:

- a. Each resident will only be allowed **TWO** attempts at each module as resident who fails at their second attempt will be required to withdraw.
- b. Each resident is to have DM in surgery in training assessment twice per year, a candidate whose assessment is remedial will be provided with a six months remediation schedule. If at the end of the remediation period the candidate is deemed to be unsafe to practice the candidate will be asked to withdraw.
- c. Each student will be required to keep a log book, which will record operations for which the student performed/assisted per year which will be defined and under the guidance of their supervisor.
- d. It is recommended that all residents in their penultimate year (only) to undertake an elective which must be at minimum six (6) months and up to one (1) year at institutions in or outside of the Caribbean provided that prior approval is obtained from the Specialty Board in Surgery. The residents are required to obtain such approval at least six (6) months prior to the commencement of the elective period.
- e. During the final year, the student is eligible for the appointment of Chief Resident. The final year of the Part II programme must be spent under direct supervision of the Lecturers in the Department.

- f. All DM Paediatric Surgery candidates must submit to the programme co-ordinator, at least six (6) months before the final (Part II) Examination, ONE of the following:
1. A Clinical Research Project only
 2. A Research Project and a minimum of ten (10) cases. Of cases submitted, a maximum of five (5) may be rare cases of unique clinical relevance that may have important educational content suitable for journal publication. The casebook must not exceed 300 pages. Research projects that students undertake must be agreed upon within six (6) months of commencing the Part II programme by the Specialty Board in the Department and their supervisor. It is to be carried out under the guidance of a supervisor as well as in accordance with the regulations in the Faculty of Medical Sciences Ethics Committee and the Board of Graduate Studies and Research. Students would be required to request permission from each of the different Regional Health Authority Ethics Boards in order to undertake their research project.
 - a. Residents are required to attend the Research/ Casebook classes which will provide guidance on the steps involved in the preparation of the casebook. Each individual case is to be reviewed with their Consultant(s) and/or Supervisor(s) for approval before being included in their casebook. Each case should be entered in the log and signed as satisfactorily completed by the supervisor. The writing of the casebook offers the student the opportunity of choosing cases of clinical relevance and to express an opinion, based on careful evaluation of the current literature. The case reports should be of high quality suitable for publication in a peer reviewed journal.
 - b. The submission of the work can be marked by the programme coordinators:
 - i. Accepted: the work is passed allowing the student to proceed to the examination or
 - ii. Accepted with minor corrections or
 - iii. Rejected: the work is given recommendations regarding changes, additions, or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.
 3. The completed casebook/project report should be submitted for assessment at least six (6) months before the date of the final examination i.e.
 - a. June 15 – for the December Exam
 - b. December 15 – for the June Exam
 4. If the work is found to be unsatisfactory and requires major revision the student will not be allowed to sit the final examination and a new date will be set.
 5. Residents who enter Part II will be required to attend the yearly Research and Ethics Class.
- g. Each DM student must spend 46 weeks each year in the programme. Candidates are allowed annual leave as dictated by their Public Hospital contract and this should not exceed more than 3 weeks per semester. A leave of absence must be sought from the University of the West Indies when residents would like to have leave which exceeds six (6) weeks per year.
- h. The duration of all the DM programmes varies from a minimum of five (5) years to a maximum of eight (8) years. The DM Paediatric Surgery regulations will be the same as the DM Surgery.

Teaching Methods

The mode of delivery will utilise a variety of styles inclusive of:

- a. Didactic lectures using multimedia at the Eric Williams Medical Sciences Complex and San Fernando General Hospital
- b. Clinical teaching in the Clinics, Operating theatres and on the Wards
- c. Morbidity and Mortality Meetings, Grand Rounds, Multi-Disciplinary Meetings, which will be either face to face or online/virtual.
- d. Journal Clubs, which will be either face to face or online/virtual.
- e. Use of electronic resources, such as Mylearning for self-directed learning

The delivery of core content will also include:

- i. Departmental weekly CME – the schedule is displayed on the noticeboard and also available with the department coordinator. Morbidity/ Mortality Meetings discussing the cases who had unexpected morbidity or complications will be held twice monthly. Multidisciplinary conferences will be held twice monthly. Invited speakers will be accommodated during these sessions to discuss selected topics.
 - (a) Postgraduate Teaching sessions – include Radiology Rounds, Case Presentations, Journal Presentation and seminar topic presentations, grand rounds, Principles of Surgery and Operative Surgery Classes common to other existing DM programmes.
 - (b) Bedside Teaching Round – Every Morning 8.00 to 9.30 am (except Theatre days) with emphasis on eliciting clinical signs and on the spot discussion on various aspects of clinical and surgical craft.
 - (c) Hospital CME: Once weekly – Surgical departments of the institution present their research work/ topics of special interest during this session.
- ii. Journal Club and Research Day – Journal clubs are held monthly and Research Day Annually. Residents are also encouraged to present at National, Regional and International Meetings. Residents are also encouraged to publish in peer review journals as an aid to be more competitive for fellowship training.

Continuous Assessment and Examinations

DM Part I

- (a) Each trainee will be assessed at the end of each rotation and must achieve a satisfactory assessment in each rotation in order to progress. If the candidate does not achieve a satisfactory assessment, he/she may be asked to repeat the rotation.
- (b) Once satisfactory assessments are gained in each rotation the trainee will be allowed to sit the Part 1 examination.
- (c) If the trainee has not been able to gain satisfactory assessments for all rotations after three (3) years, the trainee will be asked to withdraw from the Programme.
- (d) Any trainee who fails the Part 1 Examination may repeat the exam in 6 months. If the trainee fails a second time, he/she may repeat in 6 months.
- (e) Any trainee failing the Part 1 examination on three occasions will be asked to withdraw from the Programme.

DM Part II

- (a) Each trainee will be assessed at the end of each rotation and must achieve a satisfactory assessment in each rotation to progress. If the trainee does not achieve a satisfactory assessment, he/she may be asked to repeat the rotation.
- (b) Trainees will be eligible to sit the Part II examination 3 years after successful completion of the Part I examination
- (c) Only (two) 2 attempts at the Part II examination are allowed.
- (d) The Part II examination must be completed within one calendar year of the first attempt

Criteria for Award of Degree

The successful completion of the programme is completion of Part I and II inclusive of a well written casebook containing either ten (10) cases and a clinical research project or a full clinical research project.

Contact Information

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DM Psychiatry

Department of Clinical Medical Sciences

Qualifications for Entry

Applicants will be eligible for entry after completing their Internship and at least six months of a House Officer rotations. The candidate must be in a job in Psychiatry at an approved hospital before beginning the course. Following submission of their applications, candidates may be required to attend an interview to be eligible for selection to the programme.

Aims and Objectives of Programme

- To produce a graduate who can function at the clinical level of a Consultant or the academic level of a Lecturer in Psychiatry.
- To ensure that the graduate is fully equipped to function in any Caribbean territory as a Consultant General Psychiatrist.
- To practice Psychiatry in an ethical manner
- To instil the importance of lifelong and self-directed learning
- To have the competence to diagnose and manage the majority of conditions in Psychiatry.
- To have a working knowledge of research methodology.

Programme Structure and Curriculum

This 4-year full-time programme covers the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
PSCH 7721	DM Psychiatry Year I	1	I & II	MBBS
PSCH 7723	DM Psychiatry Part I Year II	2	I & II	PSCH 7721
PSCH 7726	DM Psychiatry Part II Year III – Research Paper	3	I & II	PSCH 7723
PSCH 7727	DM Psychiatry Part II Year IV-Written	4	I & II	PSCH 7726
	DM Psychiatry Part II Year IV - MCQ	4	I & II	PSCH7726
	DM Psychiatry Part II year IV – Clinical	4	I & II	PSCH 7726

Teaching Methods

Lectures, tutorials, seminars and clinical case based teaching.
Presentation and communication skills, experiential instruction.

Continuous Assessment

Continuous assessment of the candidate's performance is carried out by his/her supervisor. The supervisor will be a member of the Specialty Board in Psychiatry. If the assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:

- a) Counselling/academic warning in writing
- b) Remedial work
- c) Repeating the unsatisfactory rotations
- d) Withdrawal from the programme, if poor performance persists

The Year 1 Part 1 (Basic Sciences) examination will be held at the end of the Year 1 and candidates are evaluated in the Basic Sciences (Neuroanatomy, Neurophysiology and Psychology).

Final Examinations

Before admission to any examination, candidates must be certified by their supervisors as having completed the relevant parts of the programme.

Rules For Progression:

1. Year 1 students will not be allowed to progress to Year 2 unless they have passed all their Year 1 assessment
2. Year 2 students will not be allowed to progress to Year 3 unless they have passed the DM part I in Psychiatry

Examinations are in two parts, Parts I and Part II, and are normally held once per year in November/December.

Part I Examination (Years 1 & 2)

The Year 1 Part 1 (Basic Sciences) examination will be held at the end of the Year 1 and candidates are evaluated in the Basic Sciences (Neuroanatomy, Neurophysiology and Psychology). The Part 1 Year 2 examination is held at the end of the second year. In this examination candidates are assessed in Neurology and Psychiatry. The examination comprises:

- a) A knowledge-based examination in Neurology and Psychiatry consisting of two written papers.
- b) A clinical/oral examination in Neurology.
- c) A clinical/oral examination in Psychiatry.

Part I Year 3 – Research Project

All students must submit a completed research project to the Specialty Board through the Director of the programme, by the end of the first semester of Year 4.

- a) The research project should be produced based on cases seen and should form a distinct contribution to the knowledge of the subject presented.

OR

- b) A formal research project on an area of interest.

The research project must be of satisfactory literary standard and should attain standards suitable for publication in a peer reviewed journal. It should not exceed 20,000 words; a typical report has approximately 12,000 words. The report must follow the University's Guide for the Preparation of Theses, Research Papers and Project Reports. The Guide to Project Reports is the one applicable to the DM research project.

Part II Examination (YEAR 4)

Candidates must have completed the following three (3) requirements before being allowed to sit the Part II examination:

- a) Satisfactory continuous in-course assessments
- b) Satisfactory completion of the Part 1 assessment
- c) Accepted Research Projects.

The Part II examination is held at the end of the fourth year and candidates are evaluated in Psychiatry. This exam consists of:

- a) Two written papers
- b) A clinical examination
- c) An oral examination based on standardised vignettes or standardised questions.

Following the submission of the research project, the examiners may:

- a) accept the work and the student proceed to the final year of the programme and sit the Part II examination.
OR
- b) accept the work with modification, which must be carried out in the time specified and resubmitted PRIOR to sitting the Part II examination.
OR
- c) reject the work. In this case the student will not be allowed to sit the final Part II examination.

Criteria for Award of Degree

A candidate is deemed to complete the programme if they have met the following requirements:

- a) Year 1- satisfactory performance in the Part 1 Year 1 examination
- b) Year 2- Pass all parts of the Part 1 Year 2 examination in the same sitting
- c) Research Project - acceptance and submission of corrected project
- d) Part II – Pass each written paper, pass the clinical examination and pass the oral examination in the same sitting

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Professor Gerard Hutchinson

Building 67, Ground Floor, Room 007

Tel: 645-3232 Ext. 2914

Email: psychiatry@sta.uwi.edu

DM Radiology

Department of Clinical Medical Sciences

Qualifications for Entry

(See General Regulations)

- i. A graduate in Medicine with acceptable qualifications of a university or a medical school recognised by The University of the West Indies fully registered in the territory or territories in which training takes place.
- ii. Candidates are accepted into the programme in Semester I only of the respective academic year.
- iii. Undergraduate and postgraduate academic record(s), other specialist radiology training certificates, clinical performance, references and publications/research activity will be taken into account for consideration to entry.
- iv. Candidates are required to have completed one year of clinical service (e.g. Medicine, Surgery, Radiology, Accident/Emergency etc.) upon completion of internship.
- v. Applicants who are deemed acceptable may also be required to have an interview.
- vi. Accepted candidates will be required to secure employment within one of the approved radiology departments. Candidates may also be expected to provide clinical services on rotation at any of the approved radiology departments.

Exemption

- vii. Candidates who have completed periods of study in recognized hospitals or institutions may apply to the Specialty Board for exemption from the appropriate section of the programme. Eg. External Radiology Residencies, Membership Examinations, Fellowships etc.

Aims and Objectives of Programme

The aim of the DM in Radiology programme is to train doctors in the specialty of General Diagnostic Radiology to a level that allows them to practice as a specialist in the field of General Diagnostic Radiology. Candidates will also be exposed to and be involved in Interventional Radiology and Interventional Neuroradiology procedures. Candidates will be expected to participate in clinical decision making, will be involved in training/teaching Medical Students and Junior Residents, and be engaged in Audits/Research Activity.

Programme Structure and Curriculum

This 4-year full-time programme covers the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED
RADI 7711	DM Radiology Part 1 (<i>Radiological Anatomy, Techniques and Practical Procedures, Radiography and Physics and Apparatus Construction</i>)	1	1 & 2
RADI 7715	DM Radiology Research Project	2 & 3	1 & 2
RADI 7716	DM Radiology Part 2 (<i>Training in Radiography, Fluoroscopy, Computerised Tomography, Ultrasound, Nuclear Medicine, Mammography, Magnetic Resonance Imaging and Interventional Radiology/Interventional Neuroradiology</i>)	2,3,4	1 & 2

Course Supervision

The Specialty Board in Radiology is in overall charge of the programme. The programme will be under the general supervision of a Programme Coordinator, nominated by the Head of the Radiology Unit, in consultation with the Head of the Department and appointed by the Specialty Board in Radiology. Each student will be assigned to a supervisor who will advise the student as to the choice of projects, direction in their conduct of their research, the elective period and all other relevant matters.

Leave of Absence

The minimum time stated for the course results in 6 weeks per annum being available for leave of whatever sort, a total of 24 weeks for the duration of the programme. This stipulation will be adhered to except in extreme circumstances. Candidates who absent themselves without the necessary approval will be considered to have voluntarily withdrawn from the programme.

Teaching Methods

- i. The DM Radiology programme spans 4 years, which is divided into two parts: Part I and Part II.

Part I

- ii. This consists of and includes radiologic physics, basic radiography, radiology procedures and anatomy.

Part II

- iii. This part of the programme spans years 2, 3 and 4, and consists of a minimum of 144 weeks.
- iv. Trainees will also be given instructions in:
 - Basic research methods
 - Presentation of scientific papers
 - Medical and research ethics
 - Quality assurance
- v. The candidate's responsibility in discussion with their supervisor includes preparation of a Clinical Research Project, to be decided upon at the beginning of Year 2. By the end of year 2, their research protocol should have been submitted for approval. The report should be suitable for submission for publication in a peer reviewed scientific journal. To be submitted in the fourth year, six months prior to the final examination
- vi. Candidates will be required to submit said scientific paper within a maximum of 18 months after commencing the project. This will allow ample time for review and corrections. Unless said project/paper is deemed satisfactory and is assigned a passing grade, the candidate will not be allowed to sit the final DM Part II examinations.
- vii. Trainees will also be expected to attend chair Multidisciplinary Team meetings as part of their training, as well as to participate in the training of Medical/Dental Students, Radiographers and Junior Residents.

Elective

- viii. Candidates are encouraged to spend six months to one year in an external Radiology Department approved by the Specialty Board. This can be from Year 2 through Year 4, the candidate being required to return to the Radiology department at the UWI, no later than 6 months prior to final DM examinations.

Continuous Assessment

Students will be assessed at least semi-annually. Those with unsatisfactory records will be encouraged to improve; but if poor performance persists, any of the following courses of action may be undertaken:

- a) Counselling
- b) Remedial work
- c) Repeat rotation
- d) Withdrawal from the programme

Final Examinations

The DM examinations in Radiology are held once per year, in early to mid-May.

Repeat examinations may be held six months or one year after the candidate's initial attempt, at the discretion of the Coordinator, in consultation with the Head of the Department. Please note that November examinations are for the express purpose of facilitating repeat candidates. Said exams will not be held if there are no candidates repeating examinations.

The Part I examination assesses knowledge and diagnostic skills covered in the curriculum for the Part I programme. The examination is held within one year of commencement of the programme. The examination consists of four parts, divided into two sections as follows:

Section A: Two written papers.

Section B: The clinical session, consisting of:

- a) Film viewing spotter
- b) An oral examination

All candidates will sit Section A in their territory. Candidates successful in Section A will be invited to sit Section B, the clinical examination, at a venue in their territory or at one of the other Campuses of the UWI. The candidate will be given three to six months' notice of the date/venue of the final exam.

Candidates unsuccessful in Section A will be deemed to have failed the examination and will not be invited to the clinical examination.

A candidate will be considered as successful in the Part I Examination if they have successfully passed Sections A and B of the examination.

The Part II examination is held at the end of the fourth year and covers the candidate's knowledge of the full range of diagnostic investigations and intervention procedures. The examination consists of four parts, divided into two sections as follows:

Section A: Two written papers.

Section B: The clinical session, consisting of:

- a) Film viewing spotter
- b) An oral examination

All candidates will sit Section A in their territory. Candidates successful in Section A will be invited to sit Section B, the clinical examination. The venue for this part of the exam will be announced to the candidates at least three (3) months prior to the examination date.

Candidates unsuccessful in Section A will be deemed to have failed the examination and will not be invited to the clinical examination.

Criteria for Award of Degree

A candidate is deemed to have completed the programme if they have met the following requirements:

- a) Part 1 Year 1 examination - Pass, Proceed to Part II of the programme
- b) Research Project - acceptance and submission of corrected project
- c) Part II – Pass each written paper, pass the clinical examination and pass the oral examination in the same sitting.

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Fidel Rampersad

Building 3, 1st Floor

Telephone: 225-4673 Ext. 2170

Email: fidel.rampersad@sta.uwi.edu or fms.radiology@sta.uwi.edu

DM Urology

Department of Clinical Surgical Sciences

Qualifications for Entry

Applications are invited for entry in September of each academic year from suitably qualified persons. Applicants should have:

- a. At least one (1) year post internship with a registerable undergraduate degree.
- b. An interest in Urological Surgery including Endoscopic Urology.
- c. At least one (1) years' experience in General Surgery after internship.

All applicants must hold Medical Degrees and be fully registered with the Medical Board of Trinidad and Tobago.

Aims and Objectives of Programme

The training of a Urological Surgeon is aimed at producing a graduate who can perform and use appropriately the current techniques in general urology without supervision.

Programme Structure and Curriculum

This programme spans 6 years full-time covering the following courses:

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
SURG 7620	DM General Surgery Part I - Anatomy	1 – 2	I & II	-
SURG 7621	DM General Surgery Part I – Pathology	1 – 2	I & II	-
SURG 7622	DM General Surgery Part I – Physiology	1 – 2	I & II	-
SURG 7623	DM General Surgery Part I – Principles of Surgery	1 - 2	I & II	-
UROL 7651	Clinical Research Project	3 – 5	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
UROL 7652	Casebook	3 - 5	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I
UROL 7653	DM Urology Part II	3 - 5	I & II	Must pass all four Part I courses or Pass in SURG 7623 + two others in Part I

The first two (2) years are the same as those for the DM General Surgery.

The urology curriculum covers the following examinable areas:

1. Urinary Tract System in females and male
2. Male Reproductive System

Sub Topics for both:

- | | |
|--|--|
| <ol style="list-style-type: none"> a. Benign Prostatic Hyperplasia b. Andrology c. Bladder Dysfunction d. Trauma e. Female Urology f. Reconstructive Urology g. Oncological Urology h. Paediatric Urology i. Stones and Endourology | <ol style="list-style-type: none"> j. Urinary Tract Infection and Male Reproductive System Infection k. Transplantation l. Applied Patho-Physiology, Nephrology, Transplantation and Principles of Urology m. Investigative & Technical Aspects n. Surgical Technique in Urology o. Research Methods p. Examination: See DM General Surgery |
|--|--|

Teaching Methods

Tutorials, multidisciplinary meetings, grand rounds, journal club research, audit, surgical skills training and workshops.

Continuous Assessment

Locally at the end of each rotation and national annual assessment.

FINAL EXAMINATIONS

PART I

The Part I examination will consist of a written or MCQ and oral component of the following:

- a. Section A – Principles of Surgery
- b. Section B – Anatomy, Basic Pathology, Physiology (Including Biochemistry)

The students must pass Section A and at least two (2) parts of Section B to qualify for entry into the second part of the programme.

Students must sit the Part I examination no later than two and a half years (2 1/2) after entering the programme. Students who have not completed the Part I examination within one (1) calendar year of the last sitting of the examination will normally be required to withdraw from the programme. Students must SUCCESSFULLY complete ALL FOUR (4) components of the DM Part I within three (3) years of commencing the programme.

Students who do not pass Part II within five (5) years of completion of Part I will normally be required to withdraw from the programme.

Students will not usually be allowed more than TWO (2) ATTEMPTS at any one examination. Failure at the second attempt will necessitate withdrawal from the programme.

The student may not reapply to the programme after withdrawal.

Criteria for Award of Degree

Students must pass the Part II examination, inclusive of the written and oral final examinations and must successfully complete the requisite casebook and research which must be accepted with no corrections.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Satyendra Persaud

Tel: 657-2910 (SFGH)

Email: satyendra.persaud@sta.uwi.edu

Ms. Melrose Yearwood

Building 14, 2nd Floor, Room 205

Tel: 645-3232 Ext. 2864 or 663-4319

Email: melrose.yearwood@sta.uwi.edu

FELLOWSHIP PROGRAMMES

Fellowship in Cardiovascular Medicine

Department of Clinical Medical Sciences (This programme is not on offer for 2024/2025)

Qualifications for Entry

The candidate must fulfil all of criteria below. Because there is a perceived urgent national need for cardiologists, for a limited time only, criterion 2 will be allowed where criterion 3 is not fulfilled. The admission criteria are:

- Graduation from an accredited medical school by this is meant a medical school accredited by the Caribbean Accreditation Council for Medicine (CAAM) AND be fully registered with the Medical Board of Trinidad and Tobago
- Initially, the Membership of the Royal College of Physicians of the UK or Ireland (MRCP) will be allowed as a criterion for admission, provided that:
 - The candidate can show that he or she has had adequate proactive supervision in General Internal Medicine (GIM) during the two years prior to obtaining the MRCP
 - Admission of candidates with MRCP to the Fellowship in Cardiovascular Medicine programme will be decided on a case by case basis and is NOT automatic.
 - The MRCP as the sole postgraduate qualification will not be considered as a criterion for admission after 2016.
- Postgraduate training in GIM through a formal training programme as evidenced by:
 - DM Internal Medicine of the University of the West Indies
 - American Board of Internal Medicine
 - Royal College of Physicians of Canada with certification in GIM from Canada
 - European certification in internal medicine *provided* that the candidate is considered to be proficient in English e.g. certification by the General Medical Council of the UK as an internist.
- Demonstrated excellence in clinical knowledge and skills assessed from letters of recommendation and interview.
- Demonstrated clinical research desire/skills and/or participation in general internal medicine or cardiology service.
- Approved by a Training Selection Subcommittee for the Fellowship in Cardiovascular Medicine programme. The Training Selection Subcommittee will be appointed by the Sub-specialty Board for Cardiovascular Medicine (SSBC).
- Because this is a postgraduate and subspecialty programme, candidates within the programme will be called fellows.

Aims and Objectives

The goal of this programme, which is entirely new, is to provide high quality, comprehensive training in Cardiovascular Medicine for qualified physicians in the Caribbean with the purpose of expanding capacity and access for cardiac care, initially in Trinidad and Tobago but eventually throughout the Caribbean islands.

Programme Structure

- Course of study: monthly training rotations, didactic lectures
- Proposed programme component arrangements:
 - Non-Invasive Cardiology testing laboratory
 - Cardiac Catheterization laboratory
 - Nuclear Medicine and Cardiac CT laboratories
 - Inpatient care services

COURSE CODE	COURSE TITLE	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
Year I				DM GIM II
To be advised	Cardiac Inpatient/Consultation Service	I	I	
To be advised	Diagnostic Cardiac Catheterization	I, II, III	I & II	
To be advised	Trans-thoracic Echocardiography	I, II, III	I & II	
To be advised	Cardiac Electrophysiology	I, II, III	I & II	
Year II				
To be advised	Cardiac Continuity Clinic	II, III	I & II	
To be advised	Stress Testing	II	I & II	
Year III				
To be advised	Dissertation	III	I & II	

Course load/semester; part-time/full-time three-year programme:

- Year 1: Clinical Cardiovascular Medicine courses
- Year 2: Dissertation + Clinical Cardiovascular Medicine courses
- Year 3: Clinical Cardiovascular Medicine courses

There will be two semester examinations per year in years 1 and 3 but none in Year 2:

- Semester I (Clinical Exam)
- Semester II (Oral Exams)

Number of failures per semester

Criteria to move from year to year within the programme are stated in 3b below.

Students who fail to meet these requirements:

- In year 1: the student will not be allowed to progress to year 2
- In Year 2: No semester exam will be required in year 2 but in order to go to year 3 the Programme Coordinator must be satisfied that the student has completed the research project and so recommend to the SSBC.
- Failure to progress to the next consecutive year of the programme will require repeat of the entire year provided this does not infringe paragraph 7d below.

Re-sit examinations

There will be ONE RE-SIT for the final examination for any course.

Assessment procedures for courses, coursework, fieldwork, internships, or other

There will be:

- in-house formative continuous assessment
- semester examinations

Admission into any semester exam

Both of the following criteria will have to be met. The student must have:

- successfully completed the previous year of the programme
- passed the coursework for all courses offered

Assessment procedures for research in this programme

This will consist of a dissertation that in the opinion of the Programme Director and Programme Coordinator is at postgraduate standard and should lead to publication in a peer-reviewed journal. The paper will be scored in accordance with the requirements for MSc Theses and a final mark will be awarded for this paper.

Time limits for completion of the (Fellowship in Cardiovascular Medicine) programme

Semester examinations will be held six-monthly and the final examination at the end of three years from admission to the programme. A candidate would normally be expected to sit the final examination between a minimum of 3 years and a maximum of 5 years after enrolment into the programme.

Continuous assessment (formative assessment)

- The purpose of continuous assessment is to establish competence on each individual rotation. The assessment criteria and methods vary slightly and are described with each clinical rotation in the appendices. It is expected that the trainees gain competence in every rotation as a criterion for certification.

Promotion from one year to the next

- Students must pass each course exam.
- Students would also be expected to have a satisfactory progress report for each clinical rotation during each year.
- The final decision on progress from year to year will rest with the Specialty Board for Internal Medicine on recommendation from the Subspecialty Board for Cardiology.
- Students who fail to meet these requirements:
 - In Year 1: the student will not be allowed to progress to Year 2;
 - In Year 2: no semester exam will be required in Year 2 but in order to go to Year 3, the Programme Coordinator must be satisfied that the student has completed the Research Project and so recommend to the SSBC.
- Failure in a semester 1 exam will not prevent the student from enrolling in semester 2 of that year provided that:
 - the assessments during the clinical rotations in that semester are satisfactory.
 - the Subspecialty Board for Cardiology recommends that the student be allowed to register for semester 2 in that year.

Criteria for Award of Degree

Distinctions

These will be awarded using the accepted UWI standard according to the Regulations for Graduate Diplomas and Degrees.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Clinical Medical Sciences

Dr. Curt Bodkyn

Building 67, 2nd Floor

Tel: 663-4332

Email: curt.bodkyn@sta.uwi.edu

Fellowship in Thoracic Surgery

Department of Clinical Surgical Sciences

Qualifications for Entry

The criterion for admission is:

- a. Graduation from an accredited medical school by this is meant a medical school accredited by the Caribbean Accreditation Council for Medicine and allied Health Professions (CAAM -HP) or similar accrediting body
- b. Registration with the Medical Board of Trinidad and Tobago (MBTT) is mandatory.
- c. Certified Postgraduate training in General Surgery through a formal training programme as evidenced by:
 - i. DM General Surgery of the University of the West Indies;
 - ii. Any applicant with evidence of Specialist Qualification in General Surgery would also be considered for the Fellowship in Thoracic Surgery, if they are registered with the Medical Board of T&T as a Specialist in surgery.
 - iii. Diploma of the American Board of Surgeons in General Surgery;
 - iv. Fellowship of the Royal College of Surgeons of the UK, Ireland, Australia or New Zealand;
 - v. Fellowship of the Royal College of Surgeons of Canada with certification in General Surgery; or
 - vi. European certification in General Surgery *provided* that the candidate is considered to be proficient in English e.g. certification by the General Medical Council of the UK as a Surgeon.
- d. The Membership of the Royal College of Surgeons of the UK or Ireland (MRCS) will NOT be considered as a criterion for admission.
- e. Demonstrate some experience with Cardiac or Thoracic surgery.
- f. Write an essay of not less than 400 words on "Why I want to do a Thoracic Surgical Fellowship".
- g. Demonstrated excellence in clinical knowledge and skills assessed from letters of recommendation and interview.
- h. Demonstrated clinical research desire/skills and/or participation in a Surgical Service.
- i. The Training Selection Subcommittee for the Fellowship in Thoracic Surgery Programme will be appointed by the Sub-specialty Board for Surgery (SSBS). Qualification must be approved by the Training Selection Subcommittee following recommendation by the SBSS.
- j. Selection of candidates to the Fellowship in Thoracic Surgery programme will be decided on a case-by-case basis and is NOT automatic.
- k. Because this is a postgraduate and subspecialty programme, candidates within the programme will be called Fellows. The date of entry will normally be January/September. Applications must be made by March 30th of the year of proposed start.
- l. Interviews will be conducted by the department and the most eligible candidates selected.
- m. The date of acceptance is determined by the date from which the candidate begins to work in a recognized Thoracic Surgical post in an accredited hospital.
- n. Recognition of posts for training in Thoracic surgery will be made by the postgraduate medical curriculum facilities subcommittee.
- o. The Fellow **must** be employed in the Department appropriate to this specialty or as determined by the Specialty Board for Surgery.

Course of Study

- a. The programme will take place at the Eric Williams Medical Sciences Complex (EWMSC). The Eric Williams Medical Sciences complex has a Thoracic Surgical Department staffed by two (2) Associate Clinical Instructors and one other Hospital Consultant. In addition, there is a dedicated Thoracic Malignancy Unit with Specialised staff. Recognized institutions will be used for all or part of the programme.
- b. Each Fellow may spend up to a minimum of three (3) and a maximum of six (6) months in an elective period. This may be spent at institutions in or out of the Caribbean that have been approved by the Specialty Board for surgery. Fellows on electives are required to register during their elective year as per The University of the West Indies, Faculty of Medical Sciences regulations.
- c. A Fellow can apply for a leave of absence, but the candidate is to note that they are entitled to either one (1) academic year leave of absence or a leave of one (1) semester in each new academic year. The Fellow who requests a leave of absence should have their first attempt of the Year I examination no later than six (6) months after the original date that the candidate was due to have aforementioned exam. The exception is for the students who have their leave approved for one (1) year then that candidate will have their first attempt no later than one (1) year from the original date of the exam.

- d. In the final (2nd) year a Fellow is entitled to a leave of absence of either one (1) academic year or one (1) semester in each new academic year. Provided that the entire Fellowship does not extend beyond Five years. Final examination no later than a minimum of one (1) year and a maximum of two (2) years from the date they were originally due to write the exam.
- i. A Fellow who requests a deferral of the exam must sit that examination within six months or at the next sitting. A candidate who requests a leave of absence will not be allowed to defer the examination at the expected sitting.
- e. The duration of the Fellowship in Thoracic Surgery programmes varies from a minimum of two (2) years to a maximum of four (4) years. This is independent of the maximum time of each part i.e. to include leave of absence, deferrals as well as candidates who may have to repeat components. Candidates who do not complete the programme at this time will be required to withdraw, after discussion and ratification at the Speciality Board.

Assessments

The Fellowship in Surgery programme is designed to run over two years.

Course Code	Subject	Examination	Weighting	Pass/Fail
Years 1 & 2 Semester				
THSU 8001	Examination	Written	50 %	Must Pass both components i.e. the WRITTEN and OSCE/ Oral to Pass and proceed to Year 2
		OSCE/ Oral Exam	50 %	
THSU 8002	Clinical Research project	N/A	N/A	Must Pass the Research project to be allowed to sit final exam and to be awarded degree
THSU 8003	Final Examination	Written	50 %	Must Pass both components i.e. the WRITTEN and OSCE/ Oral to Pass. Must also pass the Research Project to be awarded Degree
		OSCE /Oral exam	50 %	

- a. Each Fellow will only be allowed **TWO** attempts at each examination; a Fellow who fails at the second attempt will be required to withdraw
- b. A fellow will be assigned a remedial instructor after the failed first attempt who will address all areas to support the fellow
- c. Each Fellow is to have in training assessment twice per year, **or more often if required**. A Fellow whose assessment is 'Remedial' will be provided with a six-month remediation schedule. If at the end of the remediation period the Fellow is deemed to be unsafe to practice, the candidate will be asked to withdraw.
- d. Each Fellow will be required to keep a logbook, which will record operations for which the student performed/ assisted per year which will be defined and under the guidance of their supervisor
- e. It is recommended that a Fellow in the second year (**only**) to undertake an elective which must be at minimum of three (3) and a maximum of six (6) months at institutions in or outside of the Caribbean provided that prior approval is obtained from the Specialty Board in Surgery. The Fellow is required to obtain approval of the University at least six (6) months prior to the commencement of the elective period.
- f. All Fellows in Thoracic Surgery must submit their Research Project to the programme co-ordinator before proceeding to the **Year 2 Examinations**. This Research Project must be passed at least three (3) months before the final Examination. Research projects that students undertake must be agreed upon within three (3) months of commencing the Fellowship programme by the Specialty Board in the Department and their supervisor. It is to be carried out under the guidance of a supervisor as well as in accordance with the regulations of the Ethics Committee as well as the Board of Graduate Studies and Research. Fellows would be required to request permission from the North Central Regional Health Authority Ethics Boards to undertake their research project.
- g. The clinical research project must be approved by the supervisor, Department and the Campus Committee. It must be written in the field of Thoracic Surgery. All fellows must complete the CITI programme before Ethical Approval is received.
- h. The format of the Fellows submissions must conform to the University regulations that address preparation of projects and dissertations.
- i. The Clinical Research Project it should not exceed 3,000 words but must not be less than 2,000 words excluding references, appendices, tables, and figures.
- j. The Clinical Research Project is to be typewritten and is to be submitted in an edit-enabled/ Microsoft format and PDF document via email to the supervisor for submission.
- k. The margins are to be 2" on the left and the top, bottom and right-hand margins should not be less than 1".

- l. Fellows are required to attend the Research/ Casebook classes which will provide guidance on the steps involved in the preparation of the Clinical Research Project. They may have attended those previously.
- m. The writing of the Clinical Research Project offers the Fellow the opportunity of choosing cases of clinical relevance and to express an opinion, based on careful evaluation of the current literature. The study should be of high quality suitable for publication in a peer reviewed journal (WIMJ guidelines).
- n. The submission of the work can be marked by the programme coordinators and a suitably qualified External Examiner as appointed by the SSBS:
 - i. Accepted: the work is passed allowing the fellow to proceed to the examination or
 - ii. Accepted with minor corrections: the work requires some minor changes and the fellow may proceed to the examination. However, these changes must be made before the fellow is allowed to graduate.
 - iii. Rejected: the work is given recommendations regarding changes, additions, or revisions necessary for acceptance. The examiners will indicate a deadline for resubmission of the work.
- o. The completed Clinical Research Project should be submitted for assessment at least three (3) months before the date of the final examination i.e.
 - i. September 15 – for the December Exam
 - ii. March 15 – for the June Exam

If the work is found to be unsatisfactory and requires major revision the student will not be allowed to sit the final examination and a new date will be set.

Criteria for Award of Degree

Distinctions

These will be awarded using the accepted UWI standard according to the Regulations for Graduate Diplomas and Degrees.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Clinical Surgical Sciences

Dr. Ravi Maharaj

Building 68, 2nd Floor

Tel: 663-4319

Email: ravi.maharaj@sta.uwi.edu

Ms. Melrose Yearwood

Building 14, 2nd Floor, Room 205

Tel: 645-3232 Ext. 2864 or 663-4319

Email: melrose.yearwood@sta.uwi.edu

MPHIL AND PHD PROGRAMMES

MPHIL/PhD Biochemistry

Department of Preclinical Sciences

Qualifications for Entry

Holders of degrees in Biochemistry or other related disciplines in the life sciences who meet the UWI minimum entry requirements for MPhil and PhD degrees (as per page 2, [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018).

Aims and Objectives of Programme

The objective of the programmes is to train students for careers in research and teaching in biochemistry and related fields. A graduate from the MPhil programme could expect to take up a position as a research technician or an equivalent post. The PhD graduates of the programme are expected to make a significant contribution to the field and be able to carry out independent research. These graduates would be suited as research scientists, university lecturers, science policy advisors and other positions requiring sophisticated training at the PhD level.

Programme Structure and Curriculum

The duration of the MPhil programme is 2-3 years full-time or 4-5 years part-time and the PhD programme is 3-5 years full-time or 5-7 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1&2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1&2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 7041
BIOC 7000	MPhil Thesis – Biochemistry	0	Successful completion of taught courses mandatory before proceeding to thesis.		MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042.
PhD Students only					
MEDC 8041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 8042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 8041 or MEDC 7041
MEDC 8043	Scientific Presentation and Critique 3	1	3	Year Long	MEDC 8042 or MEDC 7042
BIOC 8000	PhD Thesis – Biochemistry	0	Successful completion of taught courses mandatory before proceeding to thesis.		MEDC 6924, MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MED C7042, MEDC 8043.

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The programmes are delivered primarily through self-directed learning (via research) under the guidance of the student's research supervisor and advisory committee. Teaching in these courses is primarily didactic with practical components, with the exception of Scientific Presentation and Critique which comprises student and staff presented research seminars and facilitated journal club sessions.

Continuous Assessment

Student's overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (pages 45 – 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Pre-Clinical Sciences

Building 35, 1st Floor

Tel: (868) 645-8666 or (868) 645-3232 Ext. 2776

Email: Head.Preclinical@sta.uwi.edu

MPhil/PhD Community Health

Department of Paraclinical Sciences

Qualifications for Entry

To be admitted to the prescribed course of study, the qualifications for entry are a first degree and two years post graduate experience based on the [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#).

Aims and Objectives of Programme

- To provide the candidate with the expertise of various skills in Community Health.
- Plan and execute a research project which includes development of a protocol, collection of data and analysis and interpretation of the data.

Programme Structure and Curriculum

The duration of the MPhil programme is 2 years full-time and 3 years part-time while the PhD programme is 3 years full-time or 5 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1 & 2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1 & 2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 7041
COHE 7000	MPhil Thesis	0	FT - 2 PT - 3		MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042
PhD Students only					
MEDC 8041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 8042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 8041 or MEDC 7041
MEDC 8043	Scientific Presentation and Critique 3	1	3	Year Long	MEDC 8042 or MEDC 7042,
COHE 8000	PhD Thesis				MEDC 6924 MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MEDC 7042, MEDC 8043

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The teaching approach relies on a mixture of teaching methods and strategies that include:

- Lectures
- Tutorials
- Seminars
- Computer Skills Lab

Continuous Assessment

All regulations and assessment procedures must be consistent with those provided in the University of the West Indies General Regulations for Postgraduate Degrees and Diplomas.

- Reports of the various components of the research project, i.e. reports on protocol, data collections, data analysis and data interpretation.
- 60% Continuous Assessment and 40% Final Report.

Final Examinations

There is no final examination. However, a Research Project is required at the end of the last semester of the programme. This will be assessed by internal and external examiners.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (pages 45 – 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 2018).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Para-Clinical Sciences

Tel: 225-4673 Ext. 2323

Email: STA-Head.paraclinical@sta.uwi.edu

Mrs. Safiya Greaves

Public Health and Primary Care Unit

Department of Paraclinical Sciences

Tel: 663-3797; 645-2640 Ext. 2323

Email: safiya.greaves@sta.uwi.edu

MPhil/PhD Human Anatomy

Department of Preclinical Sciences

Qualifications for Entry

Holders of degrees in Anatomy as a major, genetics, molecular biology, biology, or other related disciplines in the life sciences who meet the UWI minimum entry requirements for MPhil and PhD degrees (as per page 2, [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018.

Aims and Objectives of Programme

The objective of the programmes is to train students for careers in research and teaching in human anatomy and related fields. A graduate from the MPhil programme could expect to take up a position as a research technician or an equivalent post. The PhD graduates of the programme are expected to make a significant contribution to the field and be able to carry out independent research. These graduates would be suited as research scientists, university lecturers, science policy advisors and other positions requiring sophisticated training at the PhD level.

Programme Structure and Curriculum

The duration of the MPhil programme is 2-3 years full-time or 4-5 years part-time and the PhD programme is 3-5 years full-time or 5-7 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1 & 2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1 & 2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC7041
ANAT 7000	MPhil Thesis – Human Anatomy	0	Successful completion of taught courses mandatory before proceeding to thesis		MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042
PhD Students only					
MEDC 8041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 8042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 8041 or MEDC 7041
MEDC 8043	Scientific Presentation and Critique 3	1	3	Year Long	MEDC 8042 or MEDC 7042
ANAT 8000	PhD Thesis – Human Anatomy	0	Successful completion of taught courses mandatory before proceeding to thesis		MEDC 6924, MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MEDC 7042, MEDC 8043.

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The programmes are delivered primarily through self-directed learning (via research) under the guidance of the student’s research supervisor and advisory committee. Teaching in these courses is primarily didactic with practical components, with the exception of Scientific Presentation and Critique which comprises of student and staff presented research seminars and facilitated journal club sessions.

Continuous Assessment

Student's overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Pre-Clinical Sciences

Building 35, 1st Floor

Tel: (868) 645-8666 or (868) 645-3232 Ext. 2776

Email: Head.Preclinical@sta.uwi.edu

MPhil/PhD Human Physiology

Department of Pre-Clinical Sciences

Qualifications for Entry

Holders of degrees in physiology, neurophysiology, biology or other related disciplines in the life sciences who meet the UWI minimum entry requirements for MPhil and PhD degrees (*as per page 2, [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018.*

Aims and Objectives of Programme

The objective of the programmes is to train students for careers in research and teaching in human physiology and related fields. A graduate from the MPhil programme could expect to take up a position as a research technician or an equivalent post. The PhD graduates of the programme are expected to make a significant contribution to the field and be able to carry out independent research. These graduates would be suited as research scientists, university lecturers, science policy advisors and other positions requiring sophisticated training at the PhD level. Graduates will also be suited to work within the pharmaceutical industry.

Programme Structure and Curriculum

The duration of the MPhil programme is 2-3 years full-time or 4-5 years part-time and the PhD programme is 3-5 years full-time or 5-7 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1 & 2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1 & 2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 7041
MEDC 7702	MPhil Thesis – Human Physiology	0	Successful completion of taught courses mandatory before proceeding to thesis		MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042
PhD Students only					
MEDC 8041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 8042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 8041 or MEDC 7041
MEDC 8043	Scientific Presentation and Critique 3	1	3	Year Long	MEDC 8042 or MEDC 7042
MEDC 8703	PhD Thesis – Human Physiology	0	Successful completion of taught courses mandatory before proceeding to thesis		MEDC 6924, MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MEDC 7042, MEDC 8043.

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The programmes are delivered primarily through self-directed learning (via research) under the guidance of the student's research supervisor and advisory committee. Teaching in these courses is primarily didactic with practical components, with the exception of Scientific Presentation and Critique which comprises of student and staff presented research seminars and facilitated journal club sessions.

Continuous Assessment

Student's overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (*pages 45 - 50 [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018*). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (*pages 45 - 50 [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018*).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Pre-Clinical Sciences

Building 35, 1st Floor

Tel: (868) 662-1873 or (868) 645-3232 Ext. 2776

Email: Head.Preclinical@sta.uwi.edu

MPhil/PhD Medical Microbiology

Department of Para-Clinical Sciences

Qualifications for Entry

For entry into the MPhil programme applicants must possess the MSc in Medical Microbiology or its equivalent. Applicants must possess the Master of Science Medical Microbiology, Master of Philosophy in Medical Microbiology degree from the UWI or its equivalent for entry into the PhD programme. Candidates who are graduates of other Universities must meet the UWI minimum entry requirements for MPhil and PhD degrees (*as per page 2, [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018*).

Aims and Objectives of Programme

To produce medical microbiologist who can respond to the needs of the region in laboratory management, diagnostic microbiological services, teaching and research.

Programme Structure and Curriculum

The MPhil in Medical Microbiology programme covers 3 to 7 years and the duration of the PhD programme is 4 to 8 years covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	SEMESTER OFFERED	YEAR	PREREQUISITE
Courses for MPhil Medical Microbiology – 3-7 years duration					
MEDC 7015	Fundamentals of Medical Microbiology	6	1 & 2	1	MEDC 7015 will not be required for UWI MSc Medical Microbiology graduates.
MEDC 7021	MPhil Thesis – Medical Microbiology				
MEDC 6924	Research Methods for Health Science	4	1	1	UWI MSc Medical Microbiology graduates will not be required to do this course
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1	1	UWI MSc Medical Microbiology graduates will not be required to do this course
Courses for PhD Medical Microbiology – 4-8 years duration					
MEDC 8010	Fundamentals of Medical Microbiology	6	1 & 2	1	MEDC 8010 will not be required for UWI MSc and MPhil Medical Microbiology graduates.
MEDC 6924	Research Methods for Health Science	4	1 & 2	1	
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1 & 2	1	
MEDC 8021	PhD Thesis – Medical Microbiology				

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The MPhil and PhD programs are research-based programs and candidates will have their thesis examined at the end of their study. This will involve oral defence of their work for the PhD candidates and if necessary for the MPhil candidates also.

Continuous Assessment

Student’s overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination of submitted thesis and oral examinations or defence of the thesis or research work.

Criteria for Award of Degree

The MPhil degree will be awarded to individuals who have completed the required credit courses including successful submission and passing thesis examinations. PhD students will be required to complete required credit courses including successful oral defence of their research work for the award of their degree.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Paraclinical Sciences

Tel: 645-3232 Ext. 2323

Email: Head.Paraclinical@sta.uwi.edu

MPhil/PhD Molecular Genetics

Department of Preclinical Sciences

Qualifications for Entry

Holders of degrees in molecular genetics, genetics, molecular biology, biology, biochemistry, cell biology, microbiology, virology or other related disciplines in the biological sciences who meet the UWI minimum entry requirements for MPhil and PhD degrees (as per page 2, [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018](#)).

Aims and Objectives of Programme

The objective of the programmes is to train students for careers in research and teaching in molecular genetics and related fields. A graduate from the MPhil programme could expect to take up a position as a research technician or an equivalent post. The PhD graduates of the programme are expected to make a significant contribution to the field and be able to carry out independent research. These graduates would be suited as research scientists, university lecturers, science policy advisors and other positions requiring sophisticated training at the PhD level.

Programme Structure and Curriculum

The duration of the MPhil programme is 2-3 years full-time or 4-5 years part-time and the PhD programme is 3-5 years full-time or 5-7 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1&2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1&2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 7041
MOGN 7000	MPhil Thesis – Molecular Genetics	0			MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042
PhD Students only					
MEDC 8041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 8042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 8041 or MEDC 7041
MEDC 8043	Scientific Presentation and Critique 3	1	3	Year Long	MEDC 8042 or MEDC 7042
MOGN 8000	PhD Thesis – Molecular Genetics	0			MEDC 6924, MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MEDC 7042, MEDC 8043.

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The programmes are delivered primarily through self-directed learning (via research) under the guidance of the student’s research supervisor and advisory committee. Teaching in these courses is primarily didactic with practical components, with the exception of Scientific Presentation and Critique which comprises of student and staff presented research seminars and facilitated journal club sessions.

Continuous Assessment

Student's overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (pages 45 – 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Pre-Clinical Sciences

Building 35, 1st Floor

Tel: (868) 662-1873 or (868) 645-3232 Ext. 2776

Email: Head.Preclinical@sta.uwi.edu

MPhil/PhD Neuroscience

Department of Pre-Clinical Sciences

Qualifications for Entry

Holders of degrees in Neuroscience, Physiology, Pharmacology or Biology or other related disciplines in the life sciences who meet the UWI minimum entry requirements for MPhil and PhD degrees (*as per page 2, [Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees](#) with effect from August 1st, 2018*).

Aims and Objectives of Programme

The objective of the programmes is to train students for careers in research and teaching in neuroscience related fields. This is a rapidly evolving and increasingly important area that ultimately impacts social, health and economic sphere of human endeavour. A graduate from the MPhil programme could expect to take up a position as a research technician or an equivalent post. The PhD graduates of the programme are expected to make a significant contribution to the field and be able to carry out independent research. These graduates would be suited as research scientists, university lecturers, science policy advisors and other positions requiring sophisticated training at the PhD level. Graduates will also be suited to work within the pharmaceutical industry.

Programme Structure and Curriculum

The duration of the MPhil programme is 2-3 years full-time or 4-5 years part-time and the PhD programme is 3-5 years full-time or 5-7 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1&2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1&2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 7041
NESC 7000	MPhil Thesis – Neuroscience	0	N/A		MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042
PhD Students only					
MEDC 8041	Scientific Presentation and Critique 1	1	1	Year Long	-
MEDC8042	Scientific Presentation and Critique 2	1	2	Year Long	MEDC 8041 or MEDC 7041
MEDC8043	Scientific Presentation and Critique 3	1	3	Year Long	MEDC 8042 or MEDC 7042
NESC8000	PhD Thesis – Neuroscience	0	N/A		MEDC 6924, MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MEDC 7042, MEDC 8043

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

The programmes are delivered primarily through self-directed learning (via research) under the guidance of the student’s research supervisor and advisory committee. Teaching in these courses is primarily didactic with practical components, with the exception of Scientific Presentation and Critique which comprises of student and staff presented research seminars and facilitated journal club sessions.

Continuous Assessment

Student's overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (*pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018*). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (*pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018*).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Preclinical Sciences

Building 35, 1st Floor

Telephone: (868) 645-8666 or (868) 645-3232 Ext. 2776

Email: Head.Preclinical@sta.uwi.edu

MPhil/PhD Pathology

(with sub-disciplines in: Chemical Pathology, Anatomical Pathology, Haematology, Immunology)

Department of Para-Clinical Sciences

Qualifications for Entry

To be admitted to the prescribed course of study for the MPhil and PhD degrees in Pathology in the selected available various sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology the student must be:

- Normally be a University Graduate with a First Class Honours or an Upper Second Class Honours degree from a recognised university in science or medicine [including Medical Science Degrees, BBMed Sci. majors, Physiotherapy, Pure Science degrees (including Chemistry, Zoology and Forensic Sciences)] will be considered for admission to the MPhil programme based on the selected sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology. Candidates with a MBBS degree will be required for admission under the disciplines of Anatomical Pathology and Haematology.
- Candidates with an appropriate technical qualification and work experience, or equivalent qualifications, will also be considered for admission to the course following an interview by the Paraclinical Department.
- Students will be required to satisfy the credit requirements for postgraduate study as prescribed by the Board of Graduate Studies. If they have not already completed suitable and recognised courses in Research Methods, then they will be required to do so. This will also contribute to credit requirements.

Aims and Objectives of Programme

The MPhil and PhD programmes are research-oriented in areas of basic and clinical investigations in the selected sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology.

The doctoral programme seeks to produce knowledgeable and competent persons who will provide a high level of leadership in research in the selected sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology. PhD students will attend regular seminars arranged by the programme and make presentations once per semester. PhD students must complete a minimum of 9 credits and conduct research leading to a thesis. Students will be required to submit a research thesis and pass an oral examination before graduation.

MPhil students will attend regular seminars arranged by the programme and make presentations once per semester. MPhil students must complete a minimum of 6 credits and conduct research leading to a thesis which must be submitted before graduation.

The Programme

- To provide persons with the fundamental and critical skills for assessing problems and responding to health challenges in the selected sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology.

Programme Structure and Curriculum

The duration of the MPhil programme is 2 years full-time and 3 years part-time and the PhD programme is 3 years full-time or 5 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
Courses common to MPhil/PhD					
MEDC 6924	Research Methods for Health Sciences	4	1 or 2	Year Long	-
MEDC 6925	Bio Statistics and Data Analysis for Health Sciences	4	1 or 2	Year Long	-
MPhil Courses					
MD 70A**	Introductory Course to Chemical Pathology**		1	Year Long	-
MD 70B**	Chemical Pathology Aspects of Intermediary Metabolism**		1	Year Long	-
MEDC 5405	Fundamentals for Medical Immunology	3	2		
MEDC 6822	Molecular Biology Applied to Infectious Diseases	3	1		
TBA	Fundamentals of Clinical Immunology (new course)				
TBA	MPhil Thesis Pathology (Sub-discipline Immunology)				
MEDC 7041	Scientific Presentation and Critique	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique		2	Year Long	MEDC 7041
GRSM 7000	MPhil Presentation (<i>see note below</i>)		1		-
GRSM 7001	MPhil Presentation (<i>see note below</i>)		2		
GRSM 7002	MPhil Presentation (<i>see note below</i>)				
MEDC 7700	MPhil Thesis Pathology (Sub-discipline Pathology)				-
PhD Courses					
MEDC 8041	Scientific Presentation and Critique		1	Year Long	-
MEDC 8042	Scientific Presentation and Critique		2	Year Long	MEDC 8041 or MEDC 7041
MEDC 8043	Scientific Presentation and Critique		3	Year Long	MEDC 8042 or MEDC 7042
GRSM 8000	PhD Presentation (<i>see note below</i>)		1		-
GRSM 8001	PhD Presentation (<i>see note below</i>)		2		
GRSM 8002	PhD Presentation (<i>see note below</i>)		3		
GRSM 8003	PhD Presentation (<i>see note below</i>)				
MEDC 8030	PhD Thesis (Sub-discipline Pathology)				-

N.B. MPhil students are required to do two presentations to complete their programme.
 PhD students are required to do three presentations to complete their programme.

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

Lectures seminars, small group teaching and mentorship.

Continuous Assessment

Student’s overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations ([pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018](#)). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

The award of the degree is based on presentation of a thesis of original research which significantly advances the selected discipline in Pathology. The examination for the degree is by assessment of the thesis and a viva voce examination. The MPhil and PhD degrees in Pathology will be offered when necessary in accordance with the UWI Regulations for Graduate Programmes.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Paraclinical Sciences

Tel: 645-3232 Ext. 2323

Email: Head.Paraclinical@sta.uwi.edu

Ms. Ayanna Gomez

Pathology/Microbiology Unit

Department of Paraclinical Sciences

Tel: 663-3797; 645-2640 Ext.2253

Email: ayanna.gomez@sta.uwi.edu

MPhil/PhD Pharmacology

Department of Para-Clinical Sciences

Qualifications for Entry

The entry requirement is a GPA score of 3.0 or above which conforms to the traditional Upper Second Class. Exemptions to completing Departmental courses in Basic and Systemic Pharmacology include a BSc in Pharmacy, Pharmacology or an MBBS.

Candidates other than those holding a BSc. Pharmacy, Pharmacology or MB.BS are expected to complete a Departmental course covering Basic and Systemic Pharmacology, as well as basic sciences, including Biochemistry and Physiology, relevant to the understanding of pharmacological principles. As far as possible candidates will be provided with the opportunity to participate in at least two (2) laboratory rotations outside of their primary research; to include analytical techniques, animal experimentation, molecular biology or other relevant areas available within, but not restricted to, the Faculty of Medical Sciences. Candidates are encouraged to present or publish at least two (2) first-authored primary research papers in forums or peer-reviewed journals before submission of their thesis.

Aims and Objectives of Programme

Pharmacology is the study of drugs and how they affect the body from drug-induced molecular and cellular reactions to the clinical evaluation of therapeutic efficacy. It focuses on drug use for the improvement of health and quality of life, for treatment and prevention of disease and also as research tools for the further exploration of body functions. MPhil/PhD training in Pharmacology aims to provide candidates with the requisite expertise in the concepts, approaches and techniques of the basic and clinical research and facilitates the development of independent investigators.

Programme Structure and Curriculum

The duration of the MPhil programme is 2 years full-time and 3 years part-time and the PhD programme is 3 years full-time or 5 years part-time, covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6924	Research Methods for Health Science	4	1 & 2	I	-
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4	1 & 2	I & II	-
MPhil Students only					
MEDC 7041	Scientific Presentation and Critique1	1	1	Year Long	-
MEDC 7042	Scientific Presentation and Critique2	1	2	Year Long	MEDC 7041
PHAT 7000	MPhil Thesis – Pharmacology and Therapeutics	0	FT- 2 PT- 3		MEDC 6924, MEDC 6925, MEDC 7041, MEDC 7042
PhD Students only					
MEDC 8041	Scientific Presentation and Critique1	1	1	Year Long	-
MEDC 8042	Scientific Presentation and Critique2	1	2	Year Long	MEDC 8041 or MEDC7041
MEDC 8043	Scientific Presentation and Critique3	1	3	Year Long	MEDC 8042 or MEDC 8042, MEDC 6924, MEDC 6925, MEDC 8041 or MEDC 7041, MEDC 8042 or MEDC 7042, MEDC 8043.
PHAT 8000	PhD Thesis – Pharmacology and Therapeutics	0	FT - 3 PT - 5		

(See section entitled “Legal Notice – Programmes & Courses” regarding mode of delivery and assessment).

Teaching Methods

MEDC 6924 and MEDC 6925 are delivered by didactic lectures and tutorials. MEDC 7041/7042 (MPhil); MEDC 8041/8042/8043 (PhD) are graded seminars based on the candidate’s research topic.

Continuous Assessment

Continuous assessment would consist of Faculty-based courses MEDC 6924 & MEDC 6925 (MPhil/PhD) and graded seminars MEDC 7041/7042 (MPhil); MEDC 8041/8042/8043(PhD).

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (*pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018*). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

The award of the degree is based on presentation of a thesis of original research which significantly advances the discipline in Pharmacology. The examination for the degree is by assessment of the thesis and a viva voce examination. Candidates must pass ALL compulsory written and seminar courses, as well as the final thesis. PhD candidates MUST pass the final oral examination. The MPhil and PhD degrees in Pharmacology will be awarded in accordance with the UWI Regulations for Graduate Programmes.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Head, Department of Paraclinical Sciences

Tel: 645-3232 Ext. 2323

Email: Head.Paraclinical@sta.uwi.edu

Mrs. Lisa Holder-Romain

Pharmacology Unit

Department of Paraclinical Sciences

Tel: 663-8613; 225-4673 Ext. 4605

Email: lisa.holder-romain@sta.uwi.edu

MPhil/PhD Veterinary Anatomy
MPhil/PhD Veterinary Clinical Medicine
MPhil/PhD Veterinary Microbiology
MPhil/PhD Veterinary Parasitology
MPhil/PhD Veterinary Pathology
MPhil/PhD Veterinary Physiology
MPhil/PhD Veterinary Public Health & Epidemiology

School of Veterinary Medicine

The School of Veterinary Medicine offers postgraduate studies leading to MPhil and PhD degrees of Veterinary Anatomy, Veterinary Clinical Medicine, Veterinary Microbiology, Veterinary Parasitology, Veterinary Pathology, Veterinary Physiology and Veterinary Public Health and Epidemiology. The degree programmes are primarily by research and guided studies with limited course work requirements where necessary. Details of the application process and the documents required are available at <https://sta.uwi.edu/admissions/postgrad/>.

Qualifications for Entry

The following are eligible for admission to the **MPhil degree programme**:

- i. Graduates of The University of the West Indies or of any other university, recognised for this purpose, holding the Doctor of Veterinary Medicine degree (DVM) or its equivalent.
 - Graduates of The University of the West Indies or of any other university, recognised for this purpose, holding First Class or Second Class degrees (preferably Upper Second Class Honours degrees).

Applicants who do not satisfy the requirements outlined in nos. 1 and 2 (above) may be admitted to the MPhil programme only if they have passed prescribed qualifying courses. Such candidates may be admitted as qualifying students.

- ii. Only candidates who hold Doctor of Veterinary Medicine (DVM) degrees qualify for degrees in Veterinary Clinical Studies. Degrees in non-clinical areas are open to holders of Doctor of Veterinary Medical degrees (DVM) as well as holders of other suitable degrees, which must be obtained at the level of second class upper or first class. Those with second-class lower degrees may apply only if they have a minimum of B grade in the area of interest at the degree examination and are usually required to fulfil certain conditions.

Qualifications for entry into the PhD degree programmes

Candidates for admission into the PhD programme should be:

1. Holders of MPhil degrees of The University of the West Indies, or of any other University recognised by The University of the West Indies.
2. Holders of Master of Science Degrees (MSc), by thesis, of The University of the West Indies or of any other University recognised for that purpose.
3. Candidates may have their registration upgraded from MPhil to PhD degrees, if the requirements of the upgrade are met (The requirements are outlined in the [Regulations for Postgraduate Studies of The University of the West Indies](#)).

Aims and Objectives of Programmes

Our MPhil and PhD programmes aim to:

- introduce students to research skills and specialist knowledge.
- provide qualifying students with the opportunity to carry out focused research in the discipline of their choice.
- provide an opportunity for students to acquire and develop skills and expertise relevant to their research interests.

MPhil and PhD degrees can be obtained in the following disciplines:

1. VETERINARY ANATOMY

- Reproductive biology research with emphasis on the effect plants/drugs/toxins (including environmental toxins) biology in mammals (including human) and birds
- Neuroscience research with special emphasis on auditory nuclei in bats
- Applied anatomy & recent advances in anatomy research with emphasis on regional anesthesia, wound healing and diagnostic imaging techniques
- Anatomical research with emphasis on pre- and postnatal gross anatomical/histological/histochemical/ultrasonographic studies of domestic and wild animals (inclusive of rare species of mammals, fish and birds)
- Educational research with emphasis on preparation of teaching models and methods of teaching veterinary anatomy and histology

2. VETERINARY CLINICAL MEDICINE

- *Campylobacter fetus* subsp. *venerealis* and *Trichomonas fetus* subsp. *venerealis* in some selected dairy herds
- A prospective study on transplacental transmission of equine piroplasmiasis
- Molecular and clinical dynamics of canine haemopathogens
- The occurrence of tick-borne diseases
- Epidemiological investigations into racing and training injuries in the racing thoroughbred population of Trinidad and the Caribbean
- Pathology of the upper respiratory tract of racing thoroughbreds using dynamic endoscopy
- Biological therapies in musculoskeletal diseases in animals

3. VETERINARY MICROBIOLOGY

- Identification and characterisation of viruses circulating in domestic poultry and wild birds
- Identification and characterisation of viruses affecting:
 - swine populations
 - fertility of dairy cattle
 - small ruminants
 - aquatic animal health
- Priority zoonotic viruses within the Caribbean
- Wildlife reservoirs for zoonotic and animal viruses
- Vector-borne virus spread and transmission
- Role of insect vectors as hosts for zoonotic and animal viruses
- Molecular analysis of multidrug resistant bacterial pathogens associated with food-producing animals
- Epidemiology, genomic characteristics and antimicrobial susceptibility profiles of the Staphylococci isolated from humans, animals and milk in Trinidad and Tobago
- Detection of antimicrobial residues in meat and eggs
- Immune responses to Newcastle disease virus in backyard chickens in Trinidad and Tobago
- Applications of prebiotics and probiotics to poultry production in Trinidad and Tobago

4. VETERINARY PARASITOLOGY

- Investigations into the phytoacaricidal action of Neem oil in *Boophilus microplus*
- Internal parasites and gastrointestinal microbiology of wild agouti
- Tick and tick-borne diseases
- Anthelmintic resistance in small ruminants
- Phylogenetic characteristics of *Sarcoptes scabiei* in domestic animals in Trinidad

5. VETERINARY PATHOLOGY

- Haematological values in copper deficient sheep
- Pathology and pathogenesis of tick-borne diseases
- Pathology and pathogenesis of avian viral and bacterial diseases
- Pathology of spontaneous animal neoplasms
- Diseases of ruminants

6. VETERINARY PHYSIOLOGY

- Establishment of ELISA techniques to measure progesterone concentrations in samples
- Involvement of protein kinase C (pck) in the self-priming of gonadotrophin-releasing hormone (GnRH)
- Reproductive behaviour and physiological adaptability of large and small ruminants
- Attainment of puberty in buffalo heifers
- Semen characteristics and evaluation in buffalypso and rabbits
- Improvement of reproductive efficiency by using recent estrus synchronization protocols in domestic animals
- Conjugated fatty acid metabolism in animals
- Milk and milk constituent's analysis, somatic cell count in domestic animals

7. VETERINARY PUBLIC HEALTH AND EPIDEMIOLOGY

- Isolation and characterisation of *E. coli* and *Salmonella* spp. in domestic animals and man
- Evaluation of the efficacy of *Brucella abortus* vaccine strain RB51 in domestic water buffaloes (*Bubalus bulbalis*)
- Subclinical mastitis and antimicrobial residues in dairy cows
- Bacterial aetiology of pneumonia
- Microbial quality of water supplied to urban and rural communities
- Epidemiology of zoonotic diseases
- Microbial quality of ready-to-eat foods of animal origin
- Food safety problems in the Caribbean
- A retrospective study on antimicrobial sensitivity and resistance patterns from data submitted to human and veterinary diagnostic laboratories in Trinidad and Tobago – a one health approach
- A study on welfare of farm animals
- Toxoplasmosis in animals and humans
- Dog bites in primary school children
- Antimicrobial resistance in food producing animals - a farm to fork approach
- Characterisation of the serovars of leptospirosis in the Trinidad
- Geographic information systems and disease surveillance
- Scoping reviews, systematic reviews and meta-analyses of problems in public health and food safety
- Effective use of educational technology in public health and food safety education
- Application of entrepreneurship concepts to public health
- Modelling transmission of zoonotic diseases.

Please note that these topics are provided only as a guide to prospective students. Research at the SVM is not confined to the stated topics.

Programme Structure and Curriculum

MPHIL PROGRAMMES

Course of Study

Candidates for the MPhil degree are required to register for taught courses amounting to a minimum of six (6) credit hours. These courses normally include Biostatistics and Research Methodology, and any other courses that the supervisory committee may deem necessary for the candidate.

Candidates are required to present two (2) seminars before the completion of the MPhil degree programme, one in the first half of the course and the second at the end of the course based on their research. Students are required to register for these seminars at the beginning of the semester in which it will be given (GRSM 7001, 7002). Attendance at postgraduate seminars is mandatory.

Duration of the MPhil Programme

The MPhil programme is offered to both full-time and part-time students. Full-time students are expected to complete the programme within 24 months of registration. Part-time students are expected to complete the programme within 36 months.

PHD PROGRAMMES

Course of Study

The minimum duration of the programme is three calendar years (36 months) of full-time study or five calendar years (60 months) of part-time study.

Candidates are required to register for taught courses amounting to a minimum of nine (9) credit hours (credits gained prior to upgrade from MPhil to PhD contribute towards this total). The PhD programme is fundamentally a research degree, however the supervisory committee may recommend some course work but this should not form a significant part of the programme.

Candidates are required to present at least three (3) seminars based on their research, before the completion of the programme. Students are required to register for these seminars from the start of the semester that it will be presented (GRSM 8001, 8002 and 8003). Attendance at postgraduate seminars is mandatory.

List of core courses, semesters offered and credits:

COURSE CODE	COURSE TITLE	CREDITS	SEMESTER OFFERED	PREREQUISITES/ COMMENTS
MEDC 7041	Scientific Presentation and Critique I	1	I & II	-
MEDC 7042	Scientific Presentation and Critique II	1	I & II	MEDC 7041
AGBU 6310 or MEDC 6924	Research Methodology* Research Methods for Health Sciences	4	I	-
AGRI 6620 or MEDC 6120	Biostatistics* Biostatistics & Data Analysis for Health Sciences	4	I or II	-
MEDC 8041	Scientific Presentation and Critique I	1	I & II	-
MEDC 8042	Scientific Presentation and Critique II	1	I & II	MEDC 8041
MEDC 8043	Scientific Presentation and Critique III	1	To be advised	MEDC 8042

In addition to these core courses students are required to register for thesis courses in their respective disciplines.

List of thesis courses:

COURSE CODE	COURSE TITLE	PREREQUISITES/COMMENTS
<i>MPhil Programme</i>		
VEAN 7000	MPhil Thesis Veterinary Anatomy	MEDC 7041, MEDC 7042, BIOSTATISTICS. RESEARCH METHODOLOGY Any other courses that the advisory committee may deem necessary for the candidate. All MPhil programmes require a minimum of 6 credits including core courses above.
VETM 7000	MPhil Thesis Veterinary Clinical Medicine	
VEMI 7000	MPhil Thesis Veterinary Microbiology	
VEPA 7000	MPhil Thesis Veterinary Parasitology	
VEPT 7000	MPhil Thesis Veterinary Pathology	
VEPH 7000	MPhil Thesis Veterinary Physiology	
VEPE 7001	MPhil Thesis Veterinary Public Health	
<i>PhD Programme</i>		
VEAN 8000	PhD Thesis Veterinary Anatomy	MEDC 8041 (or MEDC 7041), MEDC 8042 (or MEDC 7042) and MEDC 8043, BIOSTATISTICS. RESEARCH METHODOLOGY Any other courses that the advisory committee may deem necessary for the candidate. All PhD programmes require 9 credits including core courses above.
VEPT 8000	PhD Thesis Veterinary Clinical Medicine	
VEMI 8000	PhD Thesis Veterinary Microbiology	
VEPA 8000	PhD Thesis Veterinary Parasitology	
VEPT 8000	PhD Thesis Veterinary Pathology	
VEPH 8000	PhD Thesis Veterinary Physiology	
VEPE 8001	PhD Thesis Veterinary Public Health	

Teaching Methods

The programmes are delivered primarily through self-directed learning (via research) under the guidance of the student's research supervisor and advisory committee. Compulsory taught courses are face-to-face. Teaching in these courses is primarily didactic with practical components, with the exception of Scientific Presentation and Critique which comprises student and staff presented research seminars and facilitated journal club sessions.

Continuous Assessment

Student's overall progress is evaluated by their Supervisor(s) and their wider Committee of Advisors (inclusive of supervisors) who shall respectively submit bi-annual and annual progress reports to the Campus Committee through the Head of Department.

Final Examinations

Examination is by thesis (and oral examination in the case of PhD) as prescribed by the University regulations (pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018). Successful completion of all prescribed taught courses and graduate seminars is a pre-requisite for thesis submission.

Criteria for Award of Degree

MPhil and PhD degrees shall be awarded on the basis of examination by thesis as per University regulations (pages 45 - 50 Board for Graduate Studies and Research Regulations for Graduate Diplomas and Degrees with effect from August 1st, 2018).

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Karla Georges

Tel: 225-4673 Ext: 4213; 645-4481

Email: STA-VetDirector@sta.uwi.edu

Mrs. Leslie Ann Romain-Hood

Building 47

Tel: 645-3232 Ext. 4215

Email: leslie-ann.romain-hood@sta.uwi.edu

DIPLOMA PROGRAMMES

Diploma - Emergency Medicine

Department of Clinical Surgical Sciences

Qualifications for Entry

MBBS from accredited medical school, medical board registration, at least 6 months experience in an Emergency Department

Aims and Objectives of Programme

The aim of the Diploma in Emergency Medicine is to equip medical practitioners working in emergency situations with the core knowledge required to provide safe and effective emergency medical care in a variety of clinical settings.

Programme Structure and Curriculum

The Diploma in Emergency is an 18-month full-time programme commencing in January (Semester II) each year. Courses for which students must register are provided below:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6901	Introductory Module	0	Year 1	II	-
MEDC 6802	Evidence Based Medicine MSc	2	Year 1	I	-
MEDC 6903	Toxicological and Environmental Emergencies	2	Year 1	I	-
MEDC 6904	Paediatric Emergencies	4	Year 1	II	-
MEDC 6902	Principles of Emergency Medicine and Life Support	6	Year 1	II	-
MEDC 6905	Adult Medical Emergencies	4	Year 1	II	-
MEDC 6908	Behavioural and Psychiatric Emergencies	2	Year 1	I	-
MEDC 6906	Trauma Management	4	Year 2	II	-
MEDC 6916	Management of The Acute Surgical Patient	2	Year 2	II	-
MEDC 6920	Diploma in Emergency Medicine Examination	0	Year 2	I & II	Successful completion of all modules

Teaching Methods

Weekly tutorials, bedside teaching, weekly department teachings, grand rounds and will be conducted in 8 modules which will include teaching, grand rounds, pod casts, short courses for practical skills, journal reviews, scenario practice, mini conferences and clinic sub speciality sessions. Course work assignments include protocols, case reports and presentations.

Continuous Assessment

Feedback from supervisors and residents on modules, mock exams, short exams, regular appraisals every 3 to 6 months.

Final Examinations

Written exam, OSCE and orals.

Criteria for Award of Degree

Students must pass all modules and components of the exam.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Arvind Ramnarine

Tel: 645-3232 Ext. 2960 (EWMSC)

Email: arvind.ramnarine@sta.uwi.edu

Ms. Oli-Ann Atkinson/Ms. Melrose Yearwood

Building 14, 3rd Floor, Room 302/Building 14, 2nd Floor, Room 205

Telephone: 645-3232 Ext. 2862/2864

Email: oliann.atkinson@sta.uwi.edu

Email: melrose.yearwood@sta.uwi.edu

Diploma - Family Medicine

Department of Para-Clinical Sciences

Qualifications for Entry

Candidates seeking entry to the Diploma programme in Family Medicine must possess an MBBS degree or equivalent from an approved university and must have Full Registration with the Medical Board of Trinidad and Tobago. In addition, applicants must have at least one year's clinical working experience, preferably in Primary Care (full time or part; public or private).

Aims and Objectives of Programme

Its overall aim is to create a competent independent community-based Family Physician.

AIMS

- To provide core education and training in Family Medicine relevant to the needs of the Caribbean community.
- To stimulate the professional development of the general practitioners based on their existing experience, and to enhance their competence and ability to function effectively and efficiently as Family Physicians.
- To provide a continuing education base for the development of a career structure for Family Physicians.

Programme Structure and Curriculum

This full-time 2-year diploma programme covers the following course:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MEDC 6511	Learning & Teaching in Primary Care	1.5	Year 1	1	-
MEDC 6521	Evidence Based Medicine	2	Year 1	1	-
MEDC 6512	The Consultation & Communication	1.5	Year 1	1	-
MEDC 6513	Medical Ethics & the Doctor Patient Relationship	1.5	Year 1	1	-
MEDC 6515	Health Promotion, Screening and Risk Assessment Issues in Primary Care	1.5	Year 1	1	-
MEDC 6517	Chronic Diseases in Primary Care	1.5	Year 1	1	-
MEDC 6529	Clinical Sessions (Part I & II)	NA	Year 1	1	-
MEDC 6516	Health Care of the Elderly	1.5	Year 2	2	-
MEDC 6522	Gender Issues in Health/Women's Health	1.5	Year 2	2	-
MEDC 6523	Sexualities and STD's	1.5	Year 2	2	-
MEDC 6524	Child and Adolescent Health	1.5	Year 2	2	-
MEDC 6528	Medico-legal Issues	1.5	Year 2	2	-
MEDC 6525	Mental Health/Counselling	1.5	Year 2	2	-
MEDC 6529	Clinical Sessions (Part I & II)	NA	Year 2	2	-
MEDC 6530	Written Exam		Year 2		Successful completion of all modules

Teaching Methods

A myriad of teaching strategies are employed. These include, staff and student led presentation on relevant topics; class room discussion on current clinical and ethical issues; recording and review of clinical encounters and analysis of patient-centeredness of the consultation; identification of clinical challenges and developing search strategies, identification of relevant papers and critical appraisal of content to drive clinical practice; formal class debate on a current clinical or ethical dilemma; conduction of an audit; observorships in various family medicine related specialties and being observed while in clinical practice

Continuous Assessment

Continuous assessment contributes 24% of the final mark. The continuous assessments consist of written exams, including short answer questions (SAQs), Extended matching questions (EMQs), essays, classroom presentations, classroom debate, individual and team assignments, and an audit. An additional 6% is given to the students' personal reflection on their learning during the 2 years - this is both classroom, clinical, CME (Continuous Medical Education) sessions attended, and papers read.

Final Examinations

Students who have successfully completed all modules and accumulated the required module credits will be allowed to sit the final examination. The final assessment will comprise of 3 components:

1. The Portfolio consists of all module assignments, CME reports, personal reflections on learning and tutor comments - 30% of the final mark.
2. An Objective Structured Clinical Examination (OSCE) - 40% of the final mark. However, the OSCE examination must be passed to succeed overall.
3. Written examination (MEDC 6530) - 30% of the final mark.

Criteria for Award of Degree

To be successful, candidates are required to achieve a passing grade in all components of the examination. Further information can be obtained from the Family Medicine office.

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. M. Shastri Motilal

Tel: 645-3232 Ext. 2830

Email: shastri.motilal@sta.uwi.edu

Mr. Keron Salvary

Building 13, 1st Floor, Room 106

Tel: 645-6741/ 645-2640 Ext. 2838

Email: keron.salvary@sta.uwi.edu

Diploma - Management of HIV Infections

Department of Clinical Medical Sciences (Programme is not on offer for 2024/2025)

This is a taught part-time course with the instruction provided by local and international professionals with the necessary expertise in treatment, care and support of PLHA. Teaching methods will be through blended learning and shall include face-to-face, distance learning, debates and team presentations.

Qualifications for Entry

This programme is relevant for the following categories of individuals:

- Medical doctors, pharmacists and dentists
- Nurses with bachelor degrees from any recognised university
- Registered Nurses with a minimum of three (3) years' experience
- Social workers
- Mid-level management staff from government ministries, private sector and NGOs, e.g. individuals working for at least three (3) years as managers of HIV/AIDS related NGOs, counsellors with training or experience in assisting PLHA
- Tutors and lecturers in training institutions

Applicants must possess a bachelor's degree in the health-related sciences or appropriate social science from an approved university, or equivalent qualification and work experience.

Applicants who may not have a first degree must demonstrate a body of relevant professional experience. In these instances where qualification and experience other than approved degree are being considered, a decision on enrolment will be based on a completed application form, recommendation from employer, a personal letter indicating interest in the field of study, CV information and interview with the potential candidate.

Aims and Objectives of Programme

Aim

To facilitate expanded access to knowledge and education in the area of the management of HIV infection throughout the Caribbean and beyond. The courses offered shall cover all aspects of HIV/AIDS including care, prevention, clinical management, leadership, monitoring and evaluation and quality improvement.

Objectives

This programme will enable students to:

- Acquire essential knowledge and skills that will prepare them to provide care services for people living with HIV (PLHIV) and those affected by HIV and AIDS.
- Understand the transmission of HIV and strategies that can be used to prevent its spread.
- Deliver the knowledge and skills for effective healthcare in relation to HIV.
- Provide a range of policy perspectives and developments in treatment and care of PLHIV.

Candidates are expected to complete the programme in one year and are expected to participate on a part-time basis in training for eight (8) hours per week for thirty (30) weeks. The candidates must complete six (6) core courses in addition to one (1) of the elective courses.

Candidates with medical, social work, pharmacy, dietetics and nursing background will be expected to complete the elective practicum on Treatment and Care, and submit a casebook OR complete a research project and submit a dissertation.

Candidates without a medical background will be expected to complete:

- Three (3) practicum rotations
- A Research Project with a report/dissertation

Programme Structure and Curriculum

The following courses are covered for this 1-year programme:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED	PREREQUISITE
MHIV 5007	Research Methods and Designs	2	1	I	-
MHIV 5011	HIV Epidemiology , Pathogenesis and Laboratory Support	5	1	I	-
MHIV 5003	General Management of HIV/AIDS	5	1	I & II	-
MHIV 5004	HIV Co-infections and Other Related Issues	5	1	II	-
MHIV 5005	HIV and Health Systems	1	1	II	-
MHIV 5006	Sexual and Reproductive Health	2	1	II	-
MHIV 5008	Dissertation*	2	1	II	MHIV 5007
MHIV 5009	Practicum*	2	1	II	-

* Students can pursue either the MHIV5008 (Dissertation for students without medical sciences background) or MHIV5009 (Practicum - Treatment and Care or dissertation for students with medical sciences background) for completion.

Teaching Methods

Blended (Face to face and distance - online)

Continuous Assessment

Candidates will be assessed through a combination of formative and summative course assignments.

Students who fail the continuous assessment of any course (30% of the total final mark for the course) shall be allowed to repeat that course once.

Students passing the continuous assessment but failing any end of course examinations (70% of the total final mark for the course) shall be eligible for one re-sit at the next available sitting of the examination. This applies to all semesters.

Dissertation: The aim of this course is to instill scientific research skills and to enable the candidate to solve problems using recognised scientific methodologies.

Practicum: The aim of this practicum is to give the candidate hands-on clinical experience in the form of bed-side teaching and dealing with psychosocial issues while attending clinics supervised by consultants and other specialised HIV workers.

Final Examinations

The final exit examination will be held in May. Before admission to any examination, candidates must be certified by the programme coordinator as having completed the relevant parts of the courses. The final exit examination is 70% of the total final mark for the course.

Criteria for Award of Degree

The Diploma in the Management of HIV Infection shall be awarded to students who have successfully completed the six core and one elective courses.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Stanley Giddings

Adult Medicine Unit

Tel: 663-4332

Email: stanley.giddings@sta.uwi.edu

Postgraduate Diploma in Medical Microbiology

Department of Paraclinical Sciences

The Postgraduate Diploma in Medical Microbiology is a 1-year programme which covers the fundamentals of Medical Microbiology with emphasis on microorganisms and human disease. The programme has five sub-disciplines: Bacteriology, Virology, Mycology, Parasitology and Immunology. The blended programme will be delivered through a mixture of online lectures, coursework, in-person laboratory rotation, textbooks, seminars, hands-on practical skills, through attachment candidates to a teaching and clinical laboratory.

Qualifications for Entry

Applicants must possess a bachelor's upper second class/ honours degree in the health-related sciences or appropriate life sciences from an approved university, or equivalent qualification and work experience.

Aim of the programme

The aim of the programme is to cultivate proficient medical microbiologists capable of addressing the specific requirements of the region across various domains, including laboratory management, diagnostic microbiological services, teaching, and research endeavours.

Objectives

Upon completion of the programme, students should be proficient in the following objectives:

- Comprehend of the significant bacterial, viral, parasitic, and fungal infections relevant to humans.
- Exhibit proficiency in the classification principles of bacterial, viral, fungal, and parasitic pathogens.
- Display an in-depth understanding of the mechanisms underlying the pathogenesis of medically important bacterial, viral, parasitic, and fungal pathogens.
- Illustrate a thorough understanding of immune responses elicited by organisms of medical significance.
- Perform a wide range of laboratory tests necessary for the isolation and identification of key microbial organisms affecting humans.
- Understand the principles of quality control in laboratory testing, information management, and adherence to laboratory standards.
- Demonstrate comprehension and practical application of principles governing disinfection, sterilization, and laboratory safety protocols.
- Formulate a robust data management plan outlining procedures for data collection, storage, analysis, and security throughout the research project.
- Contribute to laboratory practice, policy, and future research endeavours.

Programme structure

This programme consists of 22 credits with strong foundational information in the subspecialties of medical microbiology. The candidates who complete this course will be awarded Postgraduate Diploma in Medical Microbiology.

POSTGRADUATE DIPLOMA IN MEDICAL MICROBIOLOGY		
Semester	Courses/activities	Credits
1 (Sep)	Fundamentals of Medical Bacteriology (MEDC 5400)	4.0
	Fundamentals of Medical Mycology (5401)	3.0
	Fundamentals of Medical Parasitology (MEDC 5402)	3.0
	Introduction to Laboratory Diagnosis of Microbial Infections (MEDC 5403)- Year-long	6.0
2 (Jan)	Fundamentals of Medical Virology (MEDC 5404)	4.0
	Fundamentals of Medical Immunology (MEDC 5405)	2.0

Teaching Methods

The programme will be delivered through university approved blended format; synchronous online lectures, asynchronous lecture videos, online study materials, problem-based learning (PBL), DVDs containing lectures, reference material and coursework with a strong laboratory component. Each candidate will be attached to clinical microbiology laboratories of all the regional health authority hospitals and recognised clinical laboratories from the region, where diagnostic skills are learned and examined under supervision of qualified personals.

Assessment

In-course assessments – 40 % of final grade - Synchronous online

Assessment 1: (20%) – Short answer questions (SAQs-10%), Short essay questions (SEQs-10%).

Assessment 2: (20%) – Group presentation (5%) and Individual write up (5%), multiple choice questions (MCQs- 10%) on topics related to Lectures.

Final Examination – 60% of final grade

Proctored, Face to Face Final Examination at a UWI local site and approved examination centres – 3-hours final examination; SAQs-20%, SEQs-20% and MCQs-60%. Practical demonstrations and objective Structured Practical Examinations (OSPE)

Criteria for Award of Degree

Postgraduate Diploma in Medical Microbiology shall be awarded to students who have successfully completed the 22 credit hours/ six courses.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme).

Dr. Chandrashekhara Unakal

Programme Coordinator

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Mrs. Ayanna Gomez- Martin

Secretary

EWMSC Bldg 4 Rm 62

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Mrs. Safiya Greaves

Administrative Assistant (Ag.)

Department of Paraclinical Sciences

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MSc PROGRAMMES

MScN Advanced Nursing

UWI School of Nursing

Qualifications for Entry

The Master of Science in Nursing programme is available to general, psychiatric and midwifery trained nurses who are registered/licensed in their current jurisdiction of practice; can verify first registration/licensure if it is different from that which is currently held, and qualifies for registration/licensure in the region served by The UWI, **AND**

1. Have a total of three (3) year post nurse registration/licensure clinical experience. The time spent on any educational programme is not included in this three (3) years practice requirement **AND**
2. Hold an undergraduate degree with not less than Second Class Honours **OR**
3. Hold a graduate degree **OR**
4. Hold approved technical and/or professional qualification(s) awarded by an approved Institution of Higher Education (Tertiary) and approved by this University and currently holds a position comparable for the area of the degree sought within the Regulations. All attempts will be made to facilitate the goals of the individual student, professional and career expectations, and employment realities.
5. Candidates who do not meet the above specified entry requirements will be required to complete qualifying courses.

An applicant will be expected to:

1. Arrange to have the relevant original educational transcripts sent directly by the educational institution to The UWI.
2. Complete a portfolio relevant to education/leadership/management (practice) experience on the identified form.
3. Submit two (2) references on The UWI form directly to The University of the West Indies, Office of Graduate Studies & Research.
4. Submit the application for admission and the required materials listed in the instructions to the identified office by the date requested with the appropriate fee.
5. Provide any other documentation as required.

Aims and Objectives of Programme

At the end of the course of studies, students will be expected to develop the following competencies consistent with their majors:

Education Specialists:

1. Examine and critique education processes from an Evidence Based Policy perspective.
2. Apply techniques of programme evaluation research in a wide variety of education settings and content areas.
3. Design research to evaluate learning effectiveness and appropriate learning outcomes.
4. Design basic research to examine cognition and perception with applications to nursing and health sciences.
5. Demonstrate skills in testing, measurement, and foundational psychometrics.
6. Demonstrate the appropriate use of technology in educational in different education settings.
7. Utilize principles of curriculum development in informing review or development of nursing curricula.

Leadership/Management Specialists:

1. Demonstrate competence in applying leadership and management theories and principles in clinical settings.
2. Promote the environment to facilitate Evidence Based Policy for health care delivery.
3. Critically appraise relevant evidence-based literature and apply leadership/management processes in clinical settings.
4. Actively contribute to the development of evidence for improving patient outcomes and health care delivery.

Evidence-Based Practice-Level Specific Competencies

1. Apply principles in reading and critical appraisal of evidence in literature
2. Synthesize findings and evaluate their applicability to practice
3. Apply evidence in implementation and evaluation of the delivery of services.
4. Critically evaluate empirical studies, including quantitative, qualitative, and mixed methods studies, with a practical emphasis on the interpretation of results and application of the findings to nursing education.

Programme Structure and Curriculum

The MSN is a full-time one academic year programme comprising three semesters that requires a minimum of Forty-Four (44) credits including a thesis or a research project. Wherever applicable, all prerequisite courses must be completed prior to full admission to the MSN programme. The programme is developed as two majors namely, Nursing Education or Nursing Leadership and Management. Each candidate will select a major as identified on their application. The core courses listed below are common to both majors and are worth between twenty-two to twenty-four (22-24) credits in total. Students must successfully complete all core courses prior to matriculating into their identified majors - either Education or Leadership/Management - where they will be required to complete a total of twenty-one (21) credits. Students must complete all core courses (22-24) credits and specialization (21) credits in order to satisfy the requirements for successful completion of the programme. Further, all students must also complete a research project/thesis, and an elective and/or independent study.

CORE COURSES				
COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED
NURS 6014	Professional Nursing	2	1	2
NURS 6017	Theoretical and Scientific Basis for Advanced Practice	3	1	1
NURS 6018	Current Issues In Nursing and Healthcare	2	1	1
NURS 6019	Leadership and Fiscal aspects of Advanced Practice	2	1	1
NURS 6020	Research Project/Thesis	9	1	Year Long
NURS 6021	Cultural/Spiritual aspects of Advanced Practice	2	1	1
NURS 6022	Methods in Clinical Nursing Research	2	1	1
ELECTIVES				
NURS 6012	Financing and Budgeting for Nursing Systems	2	1	3
NURS 6015	Quality Management in Nursing and Health Care	3	1	3
NURS 6024	Statistics for Health Professionals	3	1	2
EDUCATION SPECIALISATION				
NURS 6001	Curriculum Development for Advanced Practice in Nursing	3	1	2
NURS 6002	Seminar in Education and Evaluation	2	1	2
NURS 6003	Teaching and Learning Strategies	3	1	2
NURS 6005	Instructional Application of Technology	3	1	3
NURS 6006	Theories and Concepts in Nursing Education	3	1	2
NURS 6007	Seminar in Nursing Education	2	1	3
NURS 6004/40	Nursing Practicum 1 & 2	5	1	3
LEADERSHIP/MANAGEMENT SPECIALISATION				
NURS 6008	Nursing Management and Clinical Systems	3	1	2
NURS 6009	Managing Within Healthcare Organization	3	1	2
NURS 6010	Nursing Management of Human Resources	3	1	2
NURS 6011	Introduction to Healthcare Financing	3	1	2
NURS 6013	Nursing Leadership/Management Seminar	2	1	3
NURS 6016	Nursing Leadership/Management Practicum	5	1	3
NURS 6023	Organizational Behaviour and Processes	3	1	2

Teaching Methods

This is a fully “online” programme and all courses will be presented using the “online learning” approach that will utilize technologies in education including Blackboard Collaborate and MyeLearning. Each student will be assigned a Research Supervisor who will provide academic supervision and advising for their research project/thesis.

Continuous Assessment

Candidates for the MSN degree will be assessed using a number of continuous assessment activities. There will be no final examination for any course since the continuous assessment exercises will comprise 100% of the marks that will accrue from the assessments. All assessments will be through written submissions, however, for the practical component of the programme;

- Students will have course work and final assessments by written, oral and practicum functional examinations, with internal and external examiners appointed by the Faculty.
- The minimum pass is Grade C for each theoretical course and for each course with a practicum.
- Students have only one (1) opportunity to repeat a failed course and must register for and pursue the course(s) when they are next available or normally given.
- Pre-requisites are to be successfully completed before proceeding to those courses which require them. Students are required to pass pre-requisites at a Grade B and are not allowed a re-sit.

Students are required to pass all assessments in Semester I and Semester II prior to proceeding on their practicum or pursuing their research project/thesis. Students, who fail courses in Semester I and Semester II will be required to undertake these courses at the next Semester when it is offered. Success in these courses at the second attempt would result in students' ability to proceed to their practicum and research project/thesis. All students' research project/thesis must be marked by the immediate supervisor and one other member of staff at the level of Assistant Lecturer or above. The total marks from each marker shall be added and averaged to determine the final score for the student. In cases where there is no consensus among the 1st and 2nd Examiner, a 3rd examiner must be selected to mark the paper. In those circumstances, the third examiner shall be considered the final marker for the research project/thesis.

A student may be given:

- One opportunity to rewrite his/her research project.
- One opportunity to repeat an oral presentation of the research project.

Repeating courses, rewriting research proposals and projects could have implications for the length and cost of the programme.

Unsatisfactory rate of progress

Students whose rate of progress is considered *unsatisfactory* could be asked to withdraw. Unsatisfactory rate of progress is defined as a student, particularly full-time student, who fails:

- More than two (2) courses in Semester I or
- More than (3) courses in Semester II or
- Five courses between semesters I & II or
- Any course with practicum
- To adhere to Professional Nursing Standards

Practicum

- Practicum for both specializations: Nursing Education and Nursing Leadership/ Management will be conducted in Trinidad for a period of Four (4) weeks. Nursing Education majors will be assigned to the UWI School of Nursing while the Nursing Leadership and Management majors will be assigned to the major hospitals in Trinidad.
- Students are required to participate in an Online Week Intensive Programme during Semester III.

Registration

All students MUST register for every semester until they complete the programme.

All students will complete the practicum course in Trinidad and MUST obtain temporary registration with the Nursing Council of Trinidad and Tobago to pursue their practicum in Trinidad.

Final Examinations

There shall be no final examination since the continuous assessments shall constitute 100% of the marks.

Criteria for Award of Degree

Students who successfully completes all course requirements will be eligible for the award of their degree consistent with the regulations for the award of degrees.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Parbatee Siewdass,

*DNP (ASU, USA) M.Sc. Nursing (UWI), B.Sc. Nursing (UWI),
DHV (UWI), RN, LM.*

Lecturer and MScN Coordinator/

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MSc Medical Microbiology

Department of Para-Clinical Sciences

Qualifications for Entry

Candidates for the MSc Medical Microbiology must hold an Upper Second Class Honours degree in Medical Microbiology/Microbiology/Medical Laboratory Technology or Sciences from a recognised university. Graduates in a science not specializing in General Microbiology or Medical Microbiology will be required to complete the fundamental courses and examination before proceeding into the full MSc programme. Candidates who hold the MBBS and BB Med Science of this University or those who have similar qualifications may be exempted from the fundamental courses by presenting details of their courses and examination results. However, candidates who do not meet the criteria above may be considered for acceptance into the programme after completing a fundamental course in medical microbiology.

Aims and Objectives of Programme

Aims

The aim of the programme is to produce graduates with a systematic understanding of the scientific basis of microbiological concepts. Graduates will be equipped with the knowledge, analytical and practical skills to permit them to pursue careers in the microbiology in hospital, diagnostic laboratory or research settings. The programme will also prepare graduates for terminal degree training in medical microbiology (PhD, DM, and MD).

Objectives

On completion of the programme the student should be able to:

- Demonstrate an understanding of the important bacterial, viral, parasitic and fungal infections of medical importance.
- Demonstrate an understanding of the principles of bacterial, viral, fungal and parasitic classification.
- Demonstrate an understanding of the mechanisms of pathogenesis for bacterial, viral, parasitic and fungal pathogens of medical importance.
- Demonstrate an understanding of immune responses to organisms of medical importance.
- Be able to perform the range of laboratory tests required for isolation and identification of important microbial organisms of humans.
- Understand the principles of quality control of laboratory tests, information flow and laboratory standards.
- Demonstrate an understanding, and an ability to apply, the principles of disinfection, sterilization and laboratory safety in practical situations.
- Design and conduct sound research.
- Search the literature using electronic and conventional methods.
- Critically review material identified in this search.
- Devise different types of research objectives and select valid study designs to address these.
- Write a study protocol and obtain ethical approval for a research project.
- Apply appropriate methods to test hypothesis tests, determine optimum sample size for different types of study design.
- Devise a data management plan for a research project.
- Apply appropriate methods to evaluate and summarise both qualitative and quantitative information; devise a timetable of objectives to manage and complete a research project to time and within financial constraints; communicate clearly and concisely the findings of a research project to specialist and non-specialist audiences; draw appropriate implications for practice, policy and further work from research findings.

COURSE CODE	COURSE TITLE	CREDITS	SEMESTER OFFERED	YEAR	PREREQUISITE
Remedial courses to qualify for MSc programme - 1 year duration					
MEDC 5400	Fundamentals of Medical Bacteriology	4.0	1	1	Where a candidate does not have a strong Microbiology background and/or qualifications to undertake this MSc, such a student will be required to pursue a remedial programme. The remedial courses consist of 22 credits with foundational background and base in the subspecialty of Medical microbiology.
MEDC 5401	Fundamentals of Medical Mycology	3.0	1		
MEDC 5402	Fundamentals of Medical Parasitology	3.0	1		
MEDC 5403	Introduction to Laboratory Diagnosis of Microbial Infections	6.0	Year Long		
MEDC 5404	Fundamentals of Medical Virology	4.0	Year Long		
MEDC 5405	Fundamentals of Medical Immunology	2.0	2		
Courses for MSc Medical Microbiology – 1 year duration					
MEDC 6820	Medical Bacteriology	5.0	1	1	Remedial courses where applicable
MEDC 6821	Medical Mycology	3.0	1		
MEDC 6822	Molecular Biology Applied to Infectious Diseases	3.0	1		
MEDC 6823	Medical Virology	5.0	Year Long		
MEDC 6824	Applied Medical Immunology	3.0	2		
MEDC 6825	Medical Parasitology	2.0	2		
MEDC 6826	Diagnostic Medical Microbiology	6.0	Year Long		
MEDC 6830	Research Project	6.0	Year Long		
MEDC 6924	Research Methods for Health Sciences	4.0	1		
MEDC 6925	Biostatistics and Data Analysis for Health Sciences	4.0	1 or 2		

Programme Structure and Curriculum

The MSc Medical Microbiology covers 1 year. However, students may be required to complete remedial courses for 1 year before proceeding into the programme: The programme is structured as follows:

Teaching Methods

The programme will be delivered through a mixture of didactic lectures; tutorials and seminars, lectures and seminar notes posted online through MyeLearning, reference material and coursework with a strong laboratory component. Each candidate will be attached to clinical microbiology laboratories of all of the regional health authority hospitals where diagnostic skills are learned and examined.

Continuous Assessment

Marked out of 40%, may comprise multiple in-house examinations in the form of multiple choice questions (MCQ), short answer questions (SAQ) and short essay questions (SEQ); practical laboratory examinations and Objective Structured Practical Examinations (OSPE) where necessary.

Final Examinations

Marked out of 60%, comprises multiple choice questions (MCQ), short answer questions (SAQ) and short essay questions (SEQ); practical laboratory examinations and Objective Structured Practical Examinations (OSPE) where necessary.

Criteria for Award of Degree

Successful completion of ALL courses and completion of research project.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

Dr. Chandrashekar Unakal

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Mrs. Safiya Greaves

Department of Paraclinical Sciences

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MSc in Palliative Care

Department of Clinical Medical Sciences (This programme is not on offer for 2024/2025)

Qualifications for Entry

Admission Criteria to the MSc in Palliative Medicine Programme

- The minimum entry requirement shall be a Lower Second Class Honours degree from a recognised university or its equivalent.

The programme is relevant for the following categories:

- Medical doctors
- Nurses with graduate degrees from a recognised university
- Registered Nurses with a minimum of five (5) years' experience
- Social Workers with a graduate degree from any recognised university or at least five (5) years' experience in palliative care or an allied specialty
- Mid-level management staff from government ministries, private sector and NGOs, e.g.: individuals working for at least three (3) years as Managers of Hospices related NGOs who have a degree from a recognised university
- Tutors and Lecturers in training institutions
- Mature students with alternative qualifications and considerable work experience will be considered on a case basis

Aims and Objectives

This programme will enable students to:-

- Acquire essential knowledge and skills that will prepare them to provide care services for people living with end stage chronic diseases including cancer and end stage organ failure such as renal failure, congestive cardiac failure, liver failure, respiratory failure and the dementias.
- Understand strategies that can be used to ameliorate problems that arise in end-of-life care.
- Deliver the knowledge and skills for effective healthcare in relation to terminal illness.
- Provide a range of policy perspectives and developments in treatment and care of end stage diseases.

Structure

- The MSc in Palliative Care is a two-year part-time programme.

Date of Entry

- The date of entry will normally be in September in conjunction with general regulations.

Course of Study

- The duration of the programme is fifty-two (52) weeks part-time (12 hours per week). Candidates must complete all courses as well as either a research project OR a practicum.

Assessment

- Assessment consists of coursework examinations and end of semester examinations. For all the courses other than the Practicum/Research Project, 50% of the weighting will be from the coursework exams and 50% will be from the semester exams.
- A candidate will be deemed to have passed a given course provided that he or she has passed each of the component Coursework and Semester exams for that course.
- The Practicum/ Research Project will be weighted as 100% coursework.

Further information on the above-mentioned programme can be obtained from the Department of Clinical Medical Sciences.

Master of Public Health (MPH)

Department of Para-Clinical Sciences

Qualifications for Entry

To be admitted to the prescribed course of study for the degree of Master of Public Health (MPH) candidates must either:

- Be registered medical practitioners, dental surgeons, or veterinary surgeons, with at least three years professional experience preferably in Public Health after successfully completing the final examination in their discipline; or
- Be graduates of an approved university with at least three years of relevant practical experience; or
- Hold an approved technical or professional qualification awarded by an approved body and approved by this university and have had at least five years relevant practical experience; or
- Have in the opinion of the University, other qualifications of special relevance to the course and in the opinion of the University, have had at least five years of relevant practical experience.

Aims and Objectives of Programme

- To provide persons with the fundamental and critical skills for assessing community health problems and responding to public health challenges.
- To enable persons to use and apply principles, methods and analytical techniques of public health and allied disciplines for the improvement of population health and well-being.
- To enable persons to plan and manage public health programmes, develop and implement solutions to the public health problems, both within the context and settings of the Caribbean region and globally.

Programme Structure and Curriculum

The MPH is a two (2) year part-time programme covering the following courses:

COURSE CODE	COURSE TITLE	CREDITS	YEAR OFFERED	SEMESTER OFFERED
PUHE 6002	Epidemiology 1	3	1	I
PUHE 6004	Research Methodology	3	1	I
PUHE 6006	Social & Behavioural Sciences	3	1	I
PUHE 6003	Biostatistics	4	1	II
PUHE 6019	Health Promotion & Health Communication	3	1	II
PUHE 6007	Environmental & Occupational Health 1	3	1	II
PUHE 6010	Epidemiology 2	3	1	III
PUHE 6015	Disaster Preparedness	3	1	III
PUHE 6005	Health Economics 1	3	1	III
PUHE 6014	Public Health Policy & Law	3	2	I
PUHE 6018	Monitoring & Evaluation	3	2	I
PUHE 6013	Health Management	3	2	I
PUHE 6030	Practicum	3	2	II
PUHE 6040	Project Report	15	2	III

Teaching Methods

The teaching approach relies on a mixture of teaching methods and strategies that include:

- Active learning processes whereby the student uses the skills acquired in the core courses and integrate them to engage in analytical thinking and problem solving. Active learning includes problem-based learning where the student is required to research information in order to find solutions
- Didactic lectures for delivery of course content interspersed with short problem-solving discussions
- Case based teaching which uses current situations for analysis and problem solving
- Experiential learning and field work where students learn by doing and by reflecting and sharing their experiences. This includes practical and field exercises.
- Discussions, seminars, and presentations. These are powerful tools to promote memorable learning. These help to develop not only communication skills but also engage the participants in cognitive and integrated thinking and decision making. In these methods, students are able to share and include their past experiences in coming to practical reasoned conclusions. The programme includes an on-the job practicum, and a supervised research/ work related report project.

Discussions can be online as well as in the classroom. Courses will be available through MyeLearning and use of online discussions is encouraged.

Continuous Assessment

For progress through the programme students should obtain a minimum mark of 50% in each of the courses. Students should complete all of their coursework before progressing to the practicum and project report. All Regulations and Assessment Procedures must be consistent with those provided in the University of the West Indies General Regulations for Postgraduate Degrees and Diplomas. Candidates must complete all courses to be eligible for the award of the MPH degree. A combination of continuous (in-course) assessment and final examination is employed in the various modules.

Final Examinations

There is no final examination for the MPH. However, a Research Project is required at the end of the last semester of the two-year programme. This will be assessed by internal and external examiners.

Criteria for Award of Degree

For the award of the MPH degree, candidates are required to take courses totaling 40 credits and in addition are also required to submit a project report based on research in a chosen aspect of public health approved by the Unit of Public Health and Primary Care (see below). The project report counts for 15 credits.

Contact Information

Please contact the following person(s) responsible for distribution of packages and orientation (once accepted into the programme):

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