



**UWI**

ST. AUGUSTINE  
CAMPUS

# *Your only limit is your imagination*

**POSTGRADUATE PROSPECTUS**   
**2014 – 2015**

ENGINEERING | FOOD & AGRICULTURE | MEDICAL SCIENCES | HUMANITIES & EDUCATION | SCIENCE & TECHNOLOGY | SOCIAL SCIENCES

[sta.uwi.edu](http://sta.uwi.edu)

# CONTENTS

WELCOME.....	3
From the Principal .....	4
The School & Office for Graduate Studies & Research .....	5
WHY CHOOSE UWI.....	7
UWI LIFE – POST GRAD .....	8
The School for Graduate Studies and Research.....	8
Academic Services.....	9
Student Services.....	14
Health Services .....	15
Student Activities .....	15
Student & Alumni Associations .....	16
PROGRAMMES .....	18
Programmes .....	18
Choosing the Right Programme for You .....	22
The Faculty of ENGINEERING .....	25
Programme Information.....	26
The Faculty of FOOD & AGRICULTURE.....	36
Programme Information.....	37
The Faculty of HUMANITIES & EDUCATION .....	41
Programme Information.....	42
The Faculty of MEDICAL SCIENCES .....	48
Programme Information.....	49
The Faculty of SCIENCE & TECHNOLOGY.....	59
Programme Information.....	59
The Faculty of SOCIAL SCIENCES .....	65
Programme Information.....	66
APPLICATION INFORMATION.....	77
How to Apply .....	77
Tuition Fees.....	78
Scholarships, Grants & Studentships .....	81
PRINCIPAL OFFICERS OF THE UNIVERSITY OF THE WEST INDIES .....	84
PRINCIPAL OFFICERS OF THE ST. AUGUSTINE CAMPUS .....	85

# WELCOME

Our University has a long tradition of graduate research, examining and finding solutions to many of the problems afflicting our region. Many of our researchers, some of whom are featured in this document, are respected internationally and continue to break boundaries and add to the store of world knowledge- from the sciences to the arts.

Come join some of the region's best and brightest and let your creativity and passion lead you to extraordinary discoveries in any of the numerous areas of research offered at The University. The journey of a lifetime starts when you begin postgraduate study at The University of the West Indies and the only limit is your imagination!

## About the Prospectus

This prospectus provides information on the post-graduate programmes offered at the UWI St. Augustine Campus as well as some of the social amenities and support available. It is for the general guidance of prospective students only. As such, although great care is taken to ensure the accuracy of the information, The University reserves the right to make changes or cancel any degree or syllabus without notice should this become necessary due to circumstances beyond its control.

For further information, visit the School and Office for Graduate Studies and Research online at [sta.uwi.edu/admissions/postgrad](http://sta.uwi.edu/admissions/postgrad)

## Contact

*For further information on Postgraduate Studies at UWI*

### Senior Assistant Registrar

Office of Graduate Studies & Research  
New Student Administration Building  
The University of the West Indies  
St. Augustine Campus, Trinidad & Tobago.  
Tel: 1 (868) 662-2002  
Exts. 82616, 82209, 83194, 83178  
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Website: [sta.uwi.edu/admissions/postgrad](http://sta.uwi.edu/admissions/postgrad)

## ABOUT THE UWI

[www.uwi.edu](http://www.uwi.edu)

The University of the West Indies has four main campuses: Mona, Jamaica Cave Hill, Barbados and St. Augustine, Trinidad and the Open Campus for distance education.

The St. Augustine Campus is an attractive campus situated 15 kilometres east of Port of Spain, the nation's capital, with a distinctive mix of early 20th century and modern architecture and a rich landscape of indigenous and introduced trees and shrubs. It is relatively self-contained.

The Faculties of Engineering, Humanities & Education, Science & Technology, Food & Agriculture, Law and Social Sciences are located on the main campus in St. Augustine.

The Faculty of Medical Sciences is located at Mount Hope in the Eric Williams Medical Sciences Complex, approximately eight kilometres west of the St. Augustine Campus.

A new campus is being constructed in south Trinidad to house the Faculty of Law.

## Connect

Join us on Facebook: [facebook.com/UWISTA](https://www.facebook.com/UWISTA)  
Follow us on Twitter: [twitter.com/UWISTA](https://twitter.com/UWISTA)  
See us on Flickr: [flickr.com/photos/theuwi](https://www.flickr.com/photos/theuwi)  
View us on YouTube: [youtube.com/uwistaugustine](https://www.youtube.com/uwistaugustine)

## Read All About It!

*For the latest UWI News, Research & Programmes –*  
**UWI Today (published monthly in the Sunday Guardian)**  
[sta.uwi.edu/uwiToday](http://sta.uwi.edu/uwiToday)  
**STAN (St. Augustine News – quarterly magazine)**  
[sta.uwi.edu/stan](http://sta.uwi.edu/stan)

# FROM THE PRINCIPAL

[sta.uwi.edu/principal](http://sta.uwi.edu/principal)

The pursuit of postgraduate studies is very much like the explorer embarking on a voyage. Both are journeys requiring passion and perseverance, and both can lead to new discoveries with the potential to change your life and even change the world.

The University of the West Indies is the leading educational research institution in the Caribbean. For more than 60 years, the UWI has been home to scholars and researchers who have changed the way we in the Caribbean see ourselves, and have played a major role in the search for sustainable solutions for the problems facing small states in particular. Meanwhile, our taught programmes are among the most highly regarded by top local, regional and international businesses based in the Caribbean and give our graduates the edge in the workplace. That is why we continue to attract some of the best minds from across the globe to join us as faculty and as students.

Here at the St. Augustine campus you will find exciting research possibilities in almost every major field – Engineering, Humanities, Education, Medicine, Science, Agriculture and the Social Sciences – both academic and applied. We have renewed our commitment to building our research capability on the campus with an increase in funding for postgraduate and staff research, by providing more postgraduate scholarships, by improving the procedures governing our postgraduate programmes, and by expanding the physical facilities available exclusively for post-graduate students. We have also invested significantly in the latest technology upgrades to make collaborative research easier – whether with colleagues based at another faculty, another UWI campus, or at another institution on the other side of the globe.

We are very excited about the postgraduate opportunities provided on our campus and we look forward to sharing that excitement with you. Whether you enroll in one of our taught programmes, or pursue one of our full research degrees, there is always the opportunity to discover something new and to make your own mark on the world!



**CLEMENT K. SANKAT**  
*Pro Vice-Chancellor & Principal*



# THE SCHOOL & OFFICE FOR GRADUATE STUDIES & RESEARCH

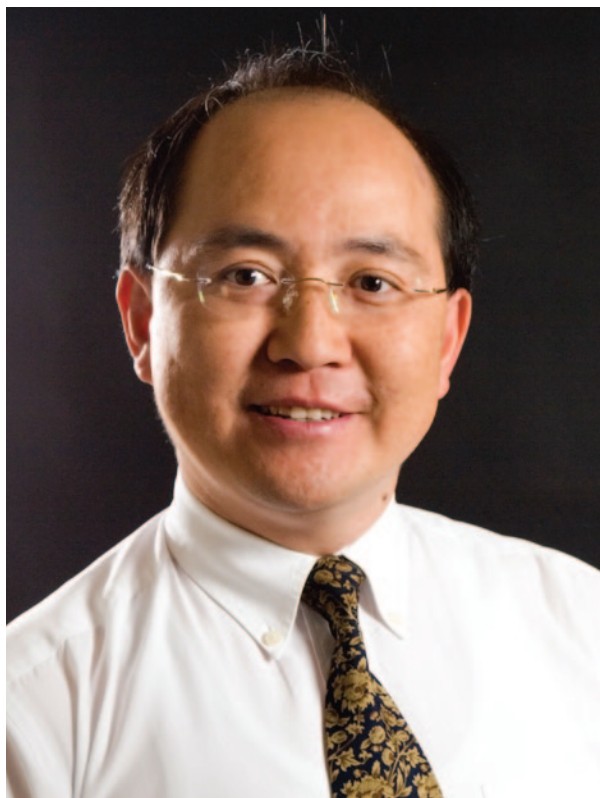
[sta.uwi.edu/admissions/postgrad/](http://sta.uwi.edu/admissions/postgrad/)

The St Augustine Campus of the University of the West Indies are committed to finding a place for everyone interested in the pursuit of higher education at the post graduate level once they are qualified to undertake graduate education. If your inclinations are towards professional training in a chosen career or further exposure to the subject, our taught Diplomas and Masters are designed to facilitate your agenda. If your interest is in the creation of new knowledge, discovery and innovation in a field that you are passionate about, the Master of Philosophy and Doctor of Philosophy degrees are geared for you. Over the last decade the number of programmes at graduate level has increased significantly with an accelerated demand during the last five years. While our programmes are not limitless, we offer local, regional and international students a place to explore their potential and experience the St Augustine campus and the quality of teaching, seminars, library, research support, counseling and extra-curricular activities that are available to all students.

It is useful as a potential or current student or staff member to understand clearly the structure and functions of those who serve you at Graduate level. Your programmes are of course designed, taught and examined by the Faculty to which you are registered, but The School and Office for Graduate Studies and Research have responsibility for the academic quality and administrative oversight of your programme with us.

The School for Graduate Studies and Research is headed by the Campus Coordinator, Graduate Studies and Research and works in tandem with the Office for Graduate Studies and Research headed by the Senior Assistant Registrar, Mrs Deborah Charles-Smythe to maintain the regulations that guide your programme. Under the current structure, the Pro Vice Chancellors are the Chairs of the Board for Graduate Studies and Research while the Campus Chair is assisted by a Campus Committee which includes Deputy Deans for Graduate Studies and Research from each faculty.

The doors and emails of the Campus Co-ordinator and Senior Assistant Registrar are always open for enquiries and concerns regarding any aspect of your programme. We try, with the help of our staff, to make sure that your graduate experience with the UWI St Augustine is as smooth and rewarding as possible. Your success is ours as we invest in you for the future of our society and the region.



**PROFESSOR KIT FAI PUN**

*Campus Chair, School for Graduate Studies & Research*





# The Choice



✕ It's not unusual for graduates of The UWI to choose to pursue graduate studies outside the Caribbean. It's not very common however, to see the reverse. Aleah earned her Bachelor of Arts Degree in Political Science with a minor in English from CUNY Brooklyn College, New York and even taught at a US university for a while. But when it came time for her to do her graduate studies in Gender and Politics with a special focus on Latin America and the Caribbean, she knew that The UWI was her best choice. Here, she says, she has been able to interact with some of the region's leading researchers and activists, whose names she had known only by having read their work. She also admits that her own research on the social revolution in Venezuela and its effect on women may not have been possible without the scholarship support and research funding she received from The University. As she puts it, "UWI has been good to me."

**ALEAH RANJITSINGH**  
*PhD in Interdisciplinary  
Gender Studies*



# WHY CHOOSE UWI

## A Proud History

The University of the West Indies was first established at Mona, Jamaica, in 1948, as a College in special relationship with the University of London to serve the British territories in the Caribbean area.

In 1960 the St. Augustine Campus was formed, replacing the Imperial College of Tropical Agriculture (ICTA) which had been established in 1921.

In 1962, The University was granted its own Charter under the Great Seal of the British Realm and thus became empowered to grant its own degrees.

UWI is a fully autonomous institution serving 17 different countries: Anguilla, Antigua/Barbuda, The Bahamas, Barbados, Belize, Bermuda, the British Virgin Islands, Cayman Islands, Dominica, Grenada, Jamaica, Montserrat, St. Christopher/ Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, and the Turks and Caicos Islands.

## Rooted in the Caribbean...

Our university was founded with a mission to serve the people of the Caribbean. Today, we continue to build The UWI as a centre of excellence in research, knowledge creation and Innovation on matters related to the Caribbean and small-island developing states.

For more than 60 years, The UWI has been home to scholars and researchers who have changed the way we in the Caribbean see ourselves, and have played a major role in the search for sustainable solutions for the problems facing small states in particular.

## ...Respected Around the World.

Our taught programmes are among the most highly regarded by top local, regional and international businesses based in the Caribbean and give our graduates the edge in the workplace. That is why we continue to attract some of the best minds from across the globe to join us as faculty and as students.

## DIVERSITY

The St. Augustine Campus has approximately 18,000 students, of whom just over 4,000 are postgraduates.

Mature students and postgraduates comprise more than 50% of the student body (based on 2010/11 statistics).

The campus is attracting a growing number of students and teaching staff from other English-speaking West Indian islands, Guyana, and Belize, as well as from North America, Latin America, Europe, Africa and Asia, including the Far East.

## INVESTING IN YOUR LEARNING

UWI St. Augustine continues to invest in the nation's research and education possibilities by allocating significant funding to postgraduate student research. The Government of Trinidad & Tobago also provides millions of dollars annually in direct support for research projects.

## NETWORK OF LIBRARY RESOURCES

Our network of eleven libraries located both on and off campus hosts one of the richest collections of information on the Caribbean in all fields. The new UWI Libraries' Information Connexion (UWIlInC) knowledge portal provides instantaneous access to a range of library material including digitized print, audio, video and images from all the libraries across all four UWI campuses via a single web space.

# UWI LIFE – POST GRAD

## THE SCHOOL FOR GRADUATE STUDIES AND RESEARCH

[sta.uwi.edu/admissions/postgrad](http://sta.uwi.edu/admissions/postgrad)  
[sta.uwi.edu/research](http://sta.uwi.edu/research)

The Office of Graduate Studies and Research at the St. Augustine Campus is responsible for the administration of all graduate programmes at the St. Augustine Campus:

- Applications
- Admissions
- Registration
- Scholarships
- Examinations (Oral, Written, Project, Research Paper and Thesis)
- Graduation

We also provide support for our postgraduate students. If you have questions or concerns, before or after enrolment, or if you need further information on anything in this prospectus, please contact:

### The School and Office of Graduate Studies & Research

Second Floor

Student Administration Building

E-mail: [postgrad@sta.uwi.edu](mailto:postgrad@sta.uwi.edu)

Tel. (868) 662-2002 Exts. 82209, 82613, 82616, 82379

Fax: (868) 645-7327.

Web: [sta.uwi.edu/admissions/postgrad](http://sta.uwi.edu/admissions/postgrad)

The University of the West Indies is one of the leading universities in the developing world and one of the premier research universities in the Caribbean and Latin American region.

The School for Graduate Studies & Research is responsible for the development of graduate studies and research on all three campuses of The University of the West Indies. The School is co-chaired by its Pro Vice Chancellor (Research), Professor Wayne Hunte at St. Augustine and Pro Vice-Chancellor (Graduate Studies) Ronald Young who resides at Mona. The School is governed by the Board for Graduate Studies & Research. There is a committee of the SGS&R on each campus called the Campus Committee for Graduate Studies & Research which is chaired by a Campus Coordinator, Graduate Studies and Research. The SGS&R works through these three Campus Committees to manage and administer activities related to research and graduate studies. The School assists academic departments with the maintenance and development of coherent research

programmes and, through the Board for Graduate Studies & Research, approves the establishment of new postgraduate programmes.

### RESEARCH AT THE UWI

UWI's strong research capabilities are based on a number of key factors including:

- The largest pool of specialists and experts in the Caribbean is domiciled in University of the West Indies
- The breadth and depth of expertise enable The University to provide multi-disciplinary teams of researchers and teachers
- Our unique perspective derived from researchers who come from the Caribbean region as well as from overseas
- Modern laboratories and other research facilities that meet the most stringent international standards
- One of the most important library networks in the region, linked to other regional and international databases
- The most modern teaching hospital in the Caribbean for Medical, Dental and Veterinary Sciences including resources for vaccine development and testing

Thanks to the size and scale of its operations, the St. Augustine Campus is able to commit the resources necessary to undertake major projects successfully. The School for Graduate Studies and Research at St. Augustine continues to foster curiosity driven, needs-related and applied research, while emphasizing the building of university-wide themes of excellence in nine focal areas:

- Biotechnology
- Cultural Studies
- Education
- Health and Wellness
- Information Technology
- Social & Economic Studies
- Sustainable and Environmental Studies
- Tourism and Hospitality Management
- Innovation and Entrepreneurship

Graduate studies at The University of the West Indies (UWI) can be undertaken in the form of taught courses or research. For more on the programmes offered at the St. Augustine Campus, see the section in this prospectus on Choosing the Programme that is Right for You or visit the website of the Office of Graduate Studies & Research at [sta.uwi.edu/admissions/postgrad](http://sta.uwi.edu/admissions/postgrad).



# ACADEMIC SERVICES

## LIBRARY SERVICES

[www.libraries.sta.uwi.edu](http://www.libraries.sta.uwi.edu)

The Campus Libraries serve as the local repository for and the principal gateway to current information and the scholarly record. The Libraries offer students and faculty strong support for instruction and research through collections containing hundreds of thousands of books, journals, multimedia and other information resources. The Campus Libraries also provide an online catalogue and access to an increasing number of research databases via the Internet.

Apart from the Alma Jordan Library (formerly the Main Library), the other special libraries which make up the on-campus and off-campus network serve mainly the departments, research centres and faculties in which they are located. UWI students can access material from off-campus resources upon presentation of a valid UWI ID card.

Introduction to library services and resources, as well as to library research and reference skills is provided for groups of postgraduate students on a regular basis. For more on the Campus Libraries Network and other resources for research, [visit sta.uwi.edu/research](http://www.sta.uwi.edu/research).

### The Alma Jordan Library

[www.libraries.sta.uwi.edu/almajordan](http://www.libraries.sta.uwi.edu/almajordan)

The Alma Jordan Library is the largest of the Campus Libraries and serves the general campus population and boasts a distinguished collection of rare Caribbean materials.

It holds almost 50,000 bound periodicals and some 400,000 monographs, with thousands more added to the collection annually. Non-print assets include CD-ROM and online databases, microfilm, audio and video recordings on cassettes, vinyl and CD.

Facilities include computer laboratories, seminar rooms, faculty studies, a multimedia room and zones for reading and quiet study.

The Alma Jordan Library also offers a wide range of research and information services such as the circulation of materials, literature searches, reference requests, compilation of bibliographies, inter-library loans, document delivery, photocopying, thesis checking and binding, user education and many others.

### The Unique Caribbean Resources of the Alma Jordan Library

The Alma Jordan Library's unique Caribbean resources are held in the West Indiana and Special Collections Division which are dedicated to ensuring that material concerning the West Indies is preserved for the use of

### THE CAMPUS LIBRARIES NETWORK

- The Alma Jordan Library
- School of Education Library
- Institute of International Relations Library
- Seismic Research Unit Library
- Faculty of Medical Sciences Library

### OFF-CAMPUS LIBRARY RESOURCES

- Caribbean Industrial Research Institute (CARIRI) Technical Information Service
- Commonwealth Agricultural Bureau (CAB) Library
- Hugh Wooding Law School Library
- Seminary of St. John Vianney Library
- Patience Theunisses Memorial Library
- Arthur Lok Jack Graduate School of Business - Republic Bank Library

present and future researchers. The West Indiana and Special Collections Division contain a wealth of unpublished source materials such as books, serials, newspapers, theses, manuscripts, maps, photographs, prints, rare books and special archival collections. The aim is to develop a comprehensive collection of material on the English-speaking Caribbean, with priority given to Trinidad & Tobago. However, researchers can also access material on the wider Caribbean.

### *The Collections*

Included among the special collections are several important collections of international significance. Three of them, the Derek Walcott Collection, the Eric Williams Memorial Collection, and the C.L.R. James Collection have been accepted for inclusion in the UNESCO Memory of the World Register in recognition of their exceptional value and the need for them to be protected for the benefit of all humanity.

For the specialised study of Caribbean Literature, the Alma Jordan Library also has the collected works and papers of Earl Lovelace, winner of the Commonwealth Literature Prize the late Samuel Selvon, distinguished Caribbean fiction writer and renowned author and historian, Michael Anthony.

Another important collection for the study of the economic history of Trinidad & Tobago is the Colonial Bank Correspondence. The collection of letters consists of the incoming correspondence to the Colonial Bank in Trinidad from its inception in 1837 to 1885. It comprises a total of 1,848 items, more than half of which are letters from the Court of Directors in London to the Manager. They are the primary source of information on the establishment of the Colonial Bank in Trinidad and on banking in general from a historical perspective.

### *Oral & Pictorial Records*

The UWI has taken the lead in establishing a mechanism to collect and preserve oral information about the history and culture of Trinidad & Tobago. Interviews are conducted with persons who have created history or who witnessed important events, and these are compiled into the Alma Jordan Library's Oral & Pictorial Records Programme (OPReP), which was established in 1981 to gather historical data on Trinidad & Tobago. The Programme also aims to collect photographs of historical interest and to identify other repositories/researchers in oral history relevant to Trinidad & Tobago.

### *Microfilm*

The Alma Jordan Library's microfilm collection includes a wide range of primary source materials, which though not unique, support postgraduate study on West Indian topics in the Humanities and Social Sciences. These include:

- Several Trinidad & Tobago newspapers of the nineteenth and twentieth centuries
- Colonial Office documents on Trinidad & Tobago
- Anti-Slavery Collections
- Letter-Books of the Society for the Propagation of the Gospel
- Clippings File of the Schomburg Center for Research in Black Culture of the New York Public Library

### **Electronic Resources**

Users can access 192 online databases, 19,412 e-books and 55,217 electronic journals via UWllinC on the Alma Jordan Library's website anywhere there is an Internet connection. Remote access is also available. Many of these databases contain full-text materials.

### *STARRS*

St. Augustine Research and Reference Services (STARRS) provide access to the On-line Public Access Catalogue (OPAC), as well as electronic databases covering varying disciplines. User-friendly interfaces make it easy for anyone in this Alma Jordan Library facility to connect to the Internet or Intranet, search and browse, and where applicable, download items. STARRS also provides access to word processing, spreadsheet, and presentation graphics software.

### *User Education Centre (UEC)*

The Alma Jordan Library's User Education Centre (UEC) is a venue for training students and staff of the university community to become information literate members of the emerging knowledge economy.

### **The Faculty of Medical Sciences Library**

**[www.mainlib.uwi.tt/msl](http://www.mainlib.uwi.tt/msl)**

Founded in 1989, the Medical Sciences Library provides services such as reference services, circulation services to both print and multimedia items, internet access

inter-library loans photocopying, print and scanning. The Library has a collection of over 37,000 items, ranging from books and periodical volumes to multimedia items and newspaper subscriptions. Apart from hard copy items, the library also provides electronic resources in the form of online databases such as BioMed Central, Cochrane Library, EBSCOhost and OCLC FirstSearch. Special facilities include four seminar rooms, multimedia-equipped Group Viewing room and Computer Training room.

### **UWllinC - Access all UWI Libraries Online**

**[www.libraries.sta.uwi.edu/uwilinc](http://www.libraries.sta.uwi.edu/uwilinc)**

UWllinC (the UWI Libraries' Information Connexion) is the e-information portal for The UWI Libraries allowing search and discovery from a single interface. UWI information resources from across the English-speaking Caribbean in all formats including UWI's intellectual output, subscribed resources (electronic journals, databases, electronic books) and the catalogues for all four UWI campuses can be accessed via UWllinC.

## **RESEARCH CENTRES & INSTITUTES**

### **ANSA McAl Psychological Research Centre**

**[sta.uwi.edu/AnsaMcAlPsychologyResearchCentre.asp](http://sta.uwi.edu/AnsaMcAlPsychologyResearchCentre.asp)**

The Psychological Research Centre is a research unit of the Department of Behavioural Sciences in the Faculty of Social Sciences, St. Augustine Campus, University of the West Indies. Apart from its daily administrative functions, the Psychological Research Centre lends research support and teaching services to over 1,200 undergraduate and graduate students in Psychology as well as academic staff in the discipline.

### **The Archaeology Centre**

**[sta.uwi.edu/fhe/archaeology/Archaeology\\_Centre.htm](http://sta.uwi.edu/fhe/archaeology/Archaeology_Centre.htm)**

Founded in 1981, the Archaeology Centre is the centre of archaeological activity in Trinidad and Tobago. It trains students in the theory and practice of archaeology and initiates archaeological research at The UWI in consultation with the Archaeological Committee of Trinidad and Tobago, the Centre updates the national inventory of all known sites in the twin island republic and undertakes the mapping, surveying and excavation of sites in Trinidad and Tobago.

### **Caribbean Centre for Monetary Studies**

**[www.ccmf-uwi.org/](http://www.ccmf-uwi.org/)**

The Caribbean Centre for Money and Finance is a policy research institution established by central banks of Caribbean Community (Caricom) countries and the University of the West Indies, to undertake studies and provide information for monetary and financial policy issues for the region. Its main activities are the organization of an annual conference on monetary

# *Your only limit is your imagination.*



✕ Professor John Agard imagined creating an ever widening circle, equipping as many people as he can with the tools to make a difference. Professor Agard recruits his students to a cause. His mission statement captures his philosophy of bridging the gap by transferring scientific knowledge at the tertiary level and developing environmental policy at the national, regional and international levels. Professor Agard is a professor in the Department of Life Sciences, a recognised UN expert on Climate Change and SIDS and was lead author of IPCC's 4th Assessment Report thus sharing in IPCC's glory of the Nobel Prize 2007. He is now lead author of both the Small Islands- Chapter of Working Group II, Inter-Governmental Panel on Climate Change (IPCC) 5th Assessment Report and the Biodiversity Chapter, UNEP Global Environmental Outlook (GEO-5). He received the UWI Vice Chancellor's Award for Excellence in 2010.

**PROFESSOR JOHN AGARD**

*BSc Chemistry and Zoology; UWI, MSc University of Manchester; PhD UWI*



## LEARN A NEW LANGUAGE AT THE CLL

[sta.uwi.edu/fhe/cll](http://sta.uwi.edu/fhe/cll)

The Centre for Language Learning (CLL) offers language courses to the university community (students and staff, regardless of faculty) and members of the public. Classes are delivered by instructors of native or near-native speaker competence with state-of-the-art technical support. As far as possible, instruction is conducted in the target language and participants are supported to develop confidence and to express themselves fluently. An understanding of and engagement with the associated culture(s) are also key elements of our language programmes.

Languages offered include

- Arabic
- Chinese (Mandarin)
- French
- German
- Hindi
- Italian
- Japanese
- Portuguese
- Spanish
- Yoruba

UWI students pay a nominal registration fee per course, and wide-ranging class time options are designed to suit almost any schedule.

For full details, visit the CLL website at [sta.uwi.edu/fhe/cll](http://sta.uwi.edu/fhe/cll)

studies and policy seminars for senior executives of private financial institutions the publication of studies related to the financial sector and performance the publication of the Journal of Business Finance and Economics in Emerging Economies, together with the Departments of Economics and Management Studies and the Sir Arthur Lewis Institute of Social and Economic Research (St. Augustine, University of the West Indies) and the production of confidential reports on economic convergence among Caricom countries and other topics of interest for the Committee of Caricom Central Bank Governors. The CCMF's mandate has recently expanded officially to include financial sector policy (and the centre's name was changed from Caribbean Centre for Monetary Studies), and private financial institutions now contribute to its budget.

## Institute for Gender and Development Studies

[sta.uwi.edu/igds](http://sta.uwi.edu/igds)

2013 marks the 20th anniversary of the Institute (IGDS), formerly, the Centre for Gender and Development Studies. The IGDS produces and disseminates knowledge on gender-related issues in the Caribbean in support of the UWI's Mission and to enhance Caribbean development. The Institute offers disciplinary and interdisciplinary courses in Gender across faculties within The University of the West Indies at both the undergraduate and postgraduate levels. It also initiates collaborative research projects that address the relationship of gender to all areas of society and pursues a program of outreach activities that includes seminars, workshops and networking events

## Cocoa Research Centre

[sta.uwi.edu/cru](http://sta.uwi.edu/cru)

The CRC is custodian of the International Cocoa Genebank, Trinidad (ICG,T), recognised by Bioversity International, CACAONET, and FAO Trust, The ICG,T is a field genebank but in addition to conservation, the ICG,T also hosts research and has irrigation facilities. The CRC is committed to providing training on-demand (or scheduled) to empower researchers, farmers and other stakeholders, and share the technological knowledge and skills necessary for the survival of the local and global cocoa industry.

## National Herbarium

[sta.uwi.edu/herbarium](http://sta.uwi.edu/herbarium)

The Herbarium provides a number of services to the University community, the general public of Trinidad and Tobago, the governments and peoples of the region, and visitors to the Republic of Trinidad and Tobago. These include plant identification (fresh and dried specimens), general information about plants - including uses, distribution, and estimates of rarity, library searches and educational tours.

## Seismic Research Unit

[www.uwiseismic.com](http://www.uwiseismic.com)

The Seismic Research Centre of The University of the West Indies monitors earthquakes and volcanoes for the English-speaking islands of the Eastern Caribbean. The SRC also jointly manages the Montserrat Volcano Observatory with the Institut de Physique du Globe de Paris (IPGP). The Seismic Research Centre is the official source of information for earthquakes and volcanoes in the English-speaking Eastern Caribbean.

## Sir Arthur Lewis Institute of Social and Economic Studies (SALISES)

[sta.uwi.edu/salises](http://sta.uwi.edu/salises)

Best known by its acronym, SALISES, the institute is named after Sir Arthur Lewis, Nobel Laureate in Economics and the first Vice Chancellor of the University of the West Indies. SALISES has branches on the physical

three campuses of the University of the West Indies in Trinidad & Tobago, Mona, Jamaica and Cave Hill, Barbados. The institute's mandate is to conduct training and research of a regional, multidisciplinary and policy-oriented nature to serve the needs of small developing countries such as those in the Caribbean. It has been designated as one of the principal units at the core of The University's School of Graduate Studies and Research. The MPhil/PhD degree programme is research-oriented with supervision in the areas of social development policy (including human resource development) governance and public policy economic development policy and management and integration theory and practice. The Institute also offers taught MSc degrees in governance, social policy and economic development policy, which are delivered at the Mona campus.

### **Tropical Medicine Cluster** [sta.uwi.edu/tropicalmedicine](http://sta.uwi.edu/tropicalmedicine)

This cluster was created to establish programmes of research that will advance knowledge in the field of infectious diseases of relevance to the Caribbean Region. Research is conducted to ascertain the (temporal and spatial) distribution of infectious diseases in human and animals in the Region, using the geographical information system (GIS) approach to promote public health and food safety through surveillance of, and development of control measures for vector and food-borne diseases in the Region and to provide opportunities for Caribbean and other students to study infectious diseases, including zoonoses, emerging and re-emerging infections in the Neotropics.

## **RESEARCH FUNDING**

### **The Campus Research & Publications Fund** [sta.uwi.edu/postgrad/awards.asp](http://sta.uwi.edu/postgrad/awards.asp)

The Campus Research and Publication Fund offers research grants to academic members of staff and graduate students who are pursuing MPhil and PhD degrees and are entering Year II of their research degree. The fund enables recipients to pursue their research adequately and communicate and publish the results of their research without undue personal hardship or without putting an excessive burden on the budgets of the departments.

### **The UWI-Trinidad and Tobago Research and Development Impact (RDI) Fund** [sta.uwi.edu/rdifund](http://sta.uwi.edu/rdifund)

The RDI Fund was created in March 2012 to support projects that address pressing development challenges and that will achieve recognizable and substantive impact in the short and medium term (3-5 years). Emphasis is placed on: multi-disciplinary research, collaboration and strategic partnerships, participation of PhD students and/or post-

doctoral researchers, a focus on research-directed action and impact on policy, practice, products and/or services, contribution to shaping the intellectual discourse on a policy issue of national/regional importance, knowledge dissemination and stakeholder engagement. Although only full-time academic staff at UWI St. Augustine may serve as Lead Researchers/Project Team Leaders for proposals submitted to the RDI Fund, part-time lecturers, assistant lecturers, instructors, demonstrators, research assistants, post-doctoral researchers, and PhD students may serve as team members. Thematic areas include climate change and environmental issues crime, violence and citizen security economic diversification and sector competitiveness finance and entrepreneurship public health technology and society: enhancing efficiency, competitiveness and social well-being.

## **COMPUTER & INFORMATION RESOURCES**

The campus boasts a high-speed computer network. Consisting of a fibre-optic data highway, this network connects faculties, departments and the Halls of Residence. Campus Information Technology Service (CITS) works with the faculties and departments to provide relevant computer facilities to help you with your studies.

There are a number of computer laboratories available for student use, each fully equipped with Internet access, the latest version of Microsoft Office, black and white printers and scanners. There is also subject specific software such as statistical and geographic mapping software. In addition, there is a wireless network which provides access to students with wireless capable devices.

### **WebCT**

Several lecturers are using WebCT as an e-learning environment that supports on-line delivery of courses to supplement course material and enhance the classroom experience.

### **myeLearning**

myeLearning is the St. Augustine Campus' student online learning environment. This website provides a space for students to:

- Access their course material
- Read announcements from their Lecturers
- Participate in online activities (e.g., discussions, polls, Wikis)
- Submit assignments
- Take exams

Students can access myeLearning, anytime and anywhere at [myelearning.sta.uwi.edu](http://myelearning.sta.uwi.edu) or by clicking on the myeLearning tab on the myUWI Home Page a [my.uwi.edu/web/mycampus/home](http://my.uwi.edu/web/mycampus/home).



# STUDENT SERVICES

## ACCOMMODATION

[sta.uwi.edu/sas/accommodation](http://sta.uwi.edu/sas/accommodation)

*NOTE: Acceptance to pursue a higher degree does not guarantee accommodation on Hall. A separate application for accommodation must be made to:*

**The Director, Student Advisory Services**

UWI, St. Augustine

Republic of Trinidad & Tobago

### On-Campus

As a Postgraduate student, you need a living atmosphere that allows you to concentrate on your studies, while enjoying all the social and leisure opportunities that The University of the West Indies has to offer. At the St. Augustine Campus there are five Halls of Residence, three of which offer accommodation for Postgraduate students:

- Milner Hall was part of the original Imperial College of Tropical Agriculture which was acquired by The University in 1960. This is the oldest of all the halls of residence and is a co-ed facility. It recently underwent a significant expansion to provide improved accommodation specifically for postgraduate students. Currently the hall has 47 spaces for postgraduate students 20 spaces in the flats (4 bedroom flats) and 27 ensuite rooms, all air-conditioned. This accommodation is for single persons only.
- The Joyce Gibson-Inniss Hall of Residence – Mount Hope provides co-ed accommodation for medical students only. It houses just over 300 students.
- The Sir Arthur Lewis Hall is the newest hall of residence and is located close to the St. Augustine Campus. It is a co-ed facility with some rooms specially outfitted to meet the needs of single or married postgraduate students.

For further information on rates, amenities and application forms, please visit [sta.uwi.edu/residence](http://sta.uwi.edu/residence)

### Off-Campus

Private off-campus housing is also available in the surrounding community. While The University has no control over the quality of this accommodation nor the rents charged, we do maintain a database of housing options available. For further information, please contact the Accommodation Officer at Student Advisory Services or visit [www.sta.uwi.edu/oasis](http://www.sta.uwi.edu/oasis).

### Eating, Shopping and Entertainment

At the main campus there is a wide selection of foods available – you can have traditional West Indian meals at Café UWI, vegetarian meals at VegOut, or fast food at KFC,

Subway, Mario's or Boomers. At Mount Hope, there are two cafeterias as well as a restaurant. There are also a number of restaurants and other fast food services within walking distance of the St. Augustine Campus.

In addition to the students' bar and other recreational facilities run by the students' Guild on campus, there are privately managed recreational facilities in the area which can be accessed by students. A bookshop, post office and banking facilities are located on the main campus at St. Augustine. There are three major shopping malls located within a few kilometres of the campus.

### Employment Opportunities

[sta.uwi.edu/sas/services/career.asp](http://sta.uwi.edu/sas/services/career.asp)

Unemployed full-time postgraduate students can apply for work under the UWI Temps programme. The benefits of this part-time/temporary employment programme are to provide extra cash and an opportunity to develop workplace knowledge, skills and attitudes.

Usually, students are employed to serve as student assistants based on requests from different departments or as exam invigilators. However, it is also possible to work in other Departments.

Employment is arranged around your class schedule and the rate is generally calculated at TT\$35 per hour. Student assistants may work a maximum of 20 hours per week. Application forms are available at the beginning of the first semester at Student Advisory Services.

### Counselling & Special Needs Services

[sta.uwi.edu/asdlu](http://sta.uwi.edu/asdlu)

No student of The UWI will be discriminated against on the basis of having special needs. Every effort is made to facilitate your on campus requirements in terms of mobility, accommodation, coursework, examinations, and other areas. Sharing your needs enables us to serve you better as a part of the campus community.

All students with special needs or differently-abled students should communicate with the Academic Support and Disabilities Liaison Unit (ASDLU), before or during registration. Staff at the ASDLU provides academic support to students of the UWI, St. Augustine at all levels, ensuring for instance, equal access (infrastructure/academic) to all students.

The ASDLU also provides support to students whose academic performance is being affected by stressful situations at home, work or school.

For further information please contact:

**Ms. Jacqueline Huggins (Head)**

**Academic Support/ Disabilities Liaison Unit**

Tel: 1 868 662 2002

Exts. 83921, 83923, 83866, 84254

## HEALTH SERVICES

[sta.uwi.edu/health](http://sta.uwi.edu/health)

The University provides a free Student Health Service, which is maintained by a campus doctor and supported by nurses and counsellors. The Health Services Unit provides an ambulatory service which includes free medical and nursing services, immunisations, pap smears, wellness clinic, HIV VCT Clinic and a Sexual Health Clinic. Services are available during the semester and vacation periods. If necessary, staff will refer students to an emergency care centre at one of our preferred medical providers.

### INSURANCE

All registered students are covered by the Student Group Health Plan and can also visit any of the following health care providers:

- Mount Hope Hospital (Eric Williams Medical Sciences Complex, Mount Hope)
- St. Augustine Private Hospital (Austin Street & Eastern Main Road, St. Augustine)
- Medical Associates Hospital (Albert & Abercromby Streets, St. Joseph)

### PHARMACEUTICAL SERVICES

All students have access to the UWI Pharmacy, which sells drugs and toiletries at subsidised costs. Prescribed and over the counter drugs are available at cost price plus twenty percent (20%) to all students on presentation of a valid UWI ID card. Our pharmaceutical care includes pharmaceutical counselling, prescription filling, invoices for insurance claims, vaccine supplies, drug information and special requests for pharmaceuticals.

### STUDENT COUNSELLING SERVICES

The Student Counselling and Psychological Service (CAPS) offers free and strictly confidential counselling to all UWI students who may be struggling with personal issues such as bereavement, relationship issues, or who are experiencing depression, anxiety, or stress-related health problems.

## STUDENT ACTIVITIES

### RELIGIOUS SERVICES

There are various places of worship near the Campus and within easy reach of students' lodgings. Additionally, there are a number of religious groups on campus such as: The Advent Fellowship, Campus Crusade for Christ, Catholic Students' Movement and the UWI Prayer Group, UWI Hindu Society, Inter-Varsity Christian Fellowship, UWI Islamic Society, Mount Hope Islamic Society and the Movement of Anglican Staff and Students.

### THE STUDENT ACTIVITY CENTRE (SAC)

The Student Activity Centre (SAC) caters for all commuter students. There are study rooms, lockers, shower and laundry facilities and recreational facilities such as pool tables and table tennis boards.

### SPORT AND RECREATION AT SPEC

[sta.uwi.edu/spec](http://sta.uwi.edu/spec)

At UWI, we believe that a sound mind resides within a healthy body. As a result, we have invested extensively over the last few years in creating a range of outstanding sporting facilities on campus, which are second to none in the region. The Sport and Physical Education Centre (SPEC) provides the opportunity for students to enjoy and participate in sport and exercise to achieve a healthier lifestyle, develop new skills and to maintain or improve their sporting talents.

*Facilities for Sports:*

- State-of-the art tennis court
- Multi-purpose indoor arena
- Weight training and fitness classes
- Circuits, spinning, body sculpting and aerobics
- Modern, well-equipped gym and fitness area
- Annual International Half Marathon

UWI takes sport seriously, and has the facilities and expertise to support this commitment. Apart from providing opportunities and facilities for the enjoyment of sport, SPEC also supports students who are working academically in physical education, sport science or coaching. Even national sporting icons frequently use our facilities for training and the UW-SPEC International Half Marathon, held in early November each year attracts top local and international competitors and is open to students and the general public.

# STUDENT & ALUMNI ASSOCIATIONS

## THE GUILD OF STUDENTS

Student activities at St. Augustine are organised and controlled by the Students' Guild. There are academic as well as artistic, cultural and religious societies catering to the special needs of students.

The University provides formally for the participation of its student body in its governance. Students, through the Guild, elect representatives on all the main decision-making committees of The University including its planning, finance and academic committees. The Students' Guild also plans various activities for students, for example, Inter-Faculty Games (which is a forerunner to the Inter-Campus Games), a Calypso Competition, Annual Fete, Caribbean Week, various Faculty Weeks and Orientation Week. As part of its outreach programme, the Guild also hosts a Tutor Programme, where University students provide assistance to secondary school students.

## POSTGRADUATE STUDENTS' ASSOCIATION (PGA)

Once you have registered for a postgraduate programme you are given automatic membership in the PGA. The PGA was established in 1996 to serve the needs of graduate students. The PGA represents graduate students as a voice in student affairs through the Students' Guild, at the Faculty Board and at the Board of Graduate Studies & Research. Any problems experienced by postgraduate students are raised at these meetings.

Aims of the PGA:

- To promote a spirit of solidarity among the postgraduate students of The University
- To promote an environment well-suited to the activities of learning, investigation, research and development of The University, through an attitude of mutual understanding and cooperation with The University authorities, its instruments and other student bodies and organisations.
- To promote awareness of the existence of the Association as a channel of communication through which the resources of postgraduate students can be taken advantage of by the region at large.
- To provide members with real benefits in terms of the Association's influence, prestige and legitimacy as the body that acts as a voice on behalf of postgraduate students, before The University authorities.
- To disseminate news of occurrences affecting all postgraduate students and to give advice to members collectively and individually on matters concerning themselves.

## THE UWI GUILD OF STUDENTS 2014/2015

**Matthew Peters - President**  
guildpresident@mysta.uwi.edu

**Makesi Peters - Vice-President**  
guildvicepresident@mysta.uwi.edu

**Laura-Lee Lynch - Secretary**  
guildsecretary@mysta.uwi.edu

**Zoe Howard - Treasurer**  
guildtreasurer@mysta.uwi.edu

**Traverse Banton - Post Graduate Representative**  
postgradrep@mysta.uwi.edu

**Brandon James - Part Time & Evening University Representative**  
parttimeeveningrep@mysta.uwi.edu

**Kyle Cassimy - Student Activities Committee Chairperson**  
guildsacc@mysta.uwi.edu

**Akeem Joseph - National Affairs Committee Chairperson**  
guildnacc@mysta.uwi.edu

**Clarissa Violenus - International Affairs Committee Chairperson**  
guildiacc@mysta.uwi.edu

**Akil Williams - Publications Committee Chairperson**  
guildpcc@mysta.uwi.edu

**Samuel Williams - Games Committee Chairperson**  
guildgcc@mysta.uwi.edu

**Vacant - Public Relations Officer**  
guildpro@mysta.uwi.edu

### FACULTY REPRESENTATIVES:

**Amelia Ramsumair - Faculty of Medical Sciences**  
representativefms@mysta.uwi.edu

**Nikoli Edwards - Faculty of Humanities**  
representativefhe@mysta.uwi.edu

**Samuel Dennis - Faculty of Law**

**Adeola Young - Faculty of Social Sciences**  
representativefss@mysta.uwi.edu

**Shalini Persad - Faculty of Engineering**  
representativefeng@mysta.uwi.edu

**Odessa Fortune - Faculty of Food & Agriculture**  
representativefsa@mysta.uwi.edu

**Derron Pereira - Faculty of Science & Technology**

### HALL CHAIRPERSONS

**Vivian Mason - Milner Hall**  
milnerhallchair@mysta.uwi.edu

**Cerelia Aberdeen - Trinity Hall**  
trinityhallchair@mysta.uwi.edu

**Pierre U'Darcy - Canada Hall**  
canadahallchair@mysta.uwi.edu

**Shivanand Seegobin - Joyce Gibson-Inniss Hall**  
jgihallchair@mysta.uwi.edu

**Carl Spencer - The Sir Arthur Lewis Hall**  
arthurlewishallchair@mysta.uwi.edu

- To create an avenue for possible exchange of ideas and interaction among postgraduates on all campuses.

The PGA hosts a number of events for both prospective and current postgraduate students, including orientation sessions, seminars, a thesis competition, job fairs and social events.

The President of the Trinidad and Tobago Chapter is also a member of the St. Augustine Campus Council, the UWI Development and Endowment Fund Committee and the University Council. Through such representations, the Alumni have been able to make inputs on key matters relevant to the University.

## **THE UNIVERSITY OF THE WEST INDIES ALUMNI ASSOCIATION (TRINIDAD & TOBAGO CHAPTER)**

[www2.sta.uwi.edu/alumni](http://www2.sta.uwi.edu/alumni)

The UWI Alumni Association formerly known as The UWI Guild of Graduates is dedicated to the advancement of The University of the West Indies as a centre of excellence in the Caribbean through the mobilisation of the resources of its Graduates. The Trinidad and Tobago Chapter of the UWIAA was re-activated in November 1988, and has been able to successfully undertake a number of key activities and projects, as a consequence of which, it is considered to be the leading Chapter in the Caribbean.

These activities include:

- Annual World of Work Seminar-The Alumni in conjunction with Student Advisory Services has held an annual World of Work Seminar and Mock Interview Sessions for members of the graduating class since 1989.
- Mentorship Programme- Since November 1994 the Alumni Association has collaborated with Student Advisory Services and the corporate sector to conduct a Mentorship Programme. Alumni members undertake the role of Mentors.
- Alumni Apprentice Programme- The AAP is a three to six week overseas internship programme for students who have just successfully completed their second year in a full-time three year programme.
- Bursaries to Students – The Association provides bursaries to deserving students who have successfully completed all courses taken maintained a Grade B average made a significant contribution to Student Community activities and also show evidence of financial need.
- Donations to UWI Alma Jordan Library - The Alumni Association donates cash and equipment to the Alma Jordan Library of the St Augustine Campus.

### *Service to The University*

Representatives of the Alumni sit on various University Committees/ Bodies, which include

- Finance and General Purposes
- Library
- Board of Undergraduate Studies
- Academic Board for School of Continuing Studies

# PROGRAMMES

For up-to-date information and details on courses related any of the programmes listed below, visit [www.sta.uwi.edu/onlineForms.asp](http://www.sta.uwi.edu/onlineForms.asp) to download the latest Information Guide (Faculty Booklet) for your faculty.

## FACULTY OF ENGINEERING

### POSTGRADUATE DIPLOMAS

- Coastal Engineering & Management
- Construction Engineering
- Construction Engineering & Management
- Construction Management (with a major in Building)
- Construction Management (with a major in Operations)
- Environmental Engineering
- Land Administration
- Petroleum Engineering
- Water & Wastewater Services Mgt

### HIGHER DEGREES

#### *Master of Science (MSc) in:*

- Chemical & Process Engineering
- Chemical & Process Engineering with Management
- Chemical & Process Engineering with Environmental Engineering
- Civil Engineering
- Civil with Environmental Engineering
- Coastal Engineering & Management
- Construction Management (with a Major in Operations)
- Construction Management (with a Major in Building)
- Engineering Asset Management
- Engineering Management
- Environmental Engineering
- Food Science & Technology
- Geoinformatics
- Manufacturing Engineering and Management

- Petroleum Engineering
- Production Engineering & Management
- Production Management
- Project Management
- Reservoir Engineering
- Urban and Regional Planning
- Water and Wastewater Services Management

#### *Master of Applied Science (MASc) in Electrical & Computer Engineering with majors in:*

- Communication Systems
- Control Systems
- Energy Systems
- Integrated Systems

#### *Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) in:*

- Agricultural Engineering
- Chemical Engineering
- Civil Engineering
- Civil with Environmental Engineering
- Construction Engineering
- Construction Engineering & Management
- Construction Management
- Electrical & Computer Engineering
- Food Science & Technology
- Geoinformatics
- Geoscience
- Industrial Engineering
- Manufacturing Engineering
- Mechanical Engineering
- Petroleum Engineering
- Petroleum Geoscience
- Production Engineering & Mgt.
- Project Management
- Surveying & Land Information
- Urban and Regional Planning

## FACULTY OF FOOD AND AGRICULTURE

### POSTGRADUATE DIPLOMAS

- Agricultural and Rural Development(By Distance)
- Agri-Food Safety and Quality Assurance
- Tropical Crop Protection

### HIGHER DEGREES

#### *Master of Science (MSc) Degrees in:*

- Agricultural and Rural Development (By Distance)
- Agricultural Economics
- Agri-Food Safety and Quality Assurance
- Marketing and Agribusiness
- Tropical Animal Science and Production
- Tropical Commodity Utilisation
- Tropical Crop Protection

*Note: Availability of these courses in any given year is subject to obtaining a suitable number of students.*

#### *Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) in:*

- Agricultural Economics
- Agricultural Extension
- Crop Science
- Earth and Environmental Science
- Food Safety and Quality
- Geography
- Horticulture
- Human Ecology
- Livestock Science
- Soil Science



## FACULTY OF MEDICAL SCIENCES

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### POSTGRADUATE DIPLOMAS

- Family Medicine
- Emergency Medicine
- Management of HIV Infections

### HIGHER DEGREES

#### *Master of Science (MSc) in:*

- Advanced Nursing (MSN)
- Clinical Psychology
- Family Medicine
- Medical Microbiology
- Palliative Care
- Public Health (MPH)

#### *Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) in:*

- Biochemistry
- Human Anatomy
- Human Nutrition
- Human Physiology
- Molecular Genetics
- Neuroscience
- Pathology (Chemical Pathology, Anatomical Pathology, Haematology, Immunology)
- Medical Microbiology
- Pharmacology
- Community Health
- Veterinary Anatomy
- Veterinary Clinical Medicine
- Veterinary Microbiology
- Veterinary Parasitology
- Veterinary Pathology
- Veterinary Physiology
- Veterinary Public Health

#### *Doctorate in Medicine (DM) specialising in:*

- Anaesthesia and Intensive Care
- Emergency Medicine
- Family Medicine
- General Internal Medicine
- Obstetrics & Gynaecology
- Ophthalmology
- Orthopaedics
- Otorhinolaryngology (ORL)
- Paediatrics
- Psychiatry
- Radiology
- General Surgery
- Urology

#### *Doctor of Medicine (MD):*

- All clinical disciplines

#### *Doctor of Veterinary Medicine (DVM)*

## FACULTY OF HUMANITIES & EDUCATION

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### POSTGRADUATE CERTIFICATE

- Certificate in University Teaching & Learning

### POSTGRADUATE DIPLOMAS

- Arts & Cultural Enterprise Management (ACEM)
- Teaching English to Speakers of Other Languages (TESOL)
- Interpreting Techniques
- Pre-Service Diploma in Education
- In-Service Diploma in Education

### HIGHER DEGREES

#### *Master of Education (MEd) in:*

- Concentration in Curriculum
- Concentration in Youth Guidance
- Science Education
- Health Promotion
- Reading

#### *Master of Arts (MA) in:*

- Cultural Studies
- Creative Design: Entrepreneurship
- History
- Human Communication Studies
- English Language
- Teaching English to Speakers of Other Languages (TESOL)
- Literatures in English
- Spanish
- Leadership in Technical and Vocational Education and Training (TVET) and Workforce Development (WFD)

#### *Master of Arts in Fine Arts (MFA) in:*

- Creative Writing - Prose Fiction

#### *Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) in:*

- Cultural Studies
- French
- History

- Human Communication Studies
- Linguistics
- Literatures in English
- Spanish
- Education

## FACULTY OF SCIENCE & TECHNOLOGY

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### POSTGRADUATE DIPLOMAS

- Biodiversity Conservation and Sustainable Development in the Caribbean (by Distance Teaching)

### HIGHER DEGREES

#### *Master of Science (MSc) Degrees in:*

- Biodiversity Conservation and Sustainable Development in the Caribbean (Offered by Distance Teaching)
- Computer Science
- Mathematics
- Occupational and Environmental Safety and Health
- Renewable Energy Technology
- Statistics

#### *Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) in:*

- Biochemistry
- Chemistry
- Computer Science
- Environmental Biology
- Mathematics
- Microbiology
- Physics
- Plant Science
- Statistics
- Zoology

## FACULTY OF SOCIAL SCIENCES

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### POSTGRADUATE DIPLOMAS

- Gender and Development Studies
- International Relations
- Mediation Studies
- Sports Management
- Tourism Development and Management

### HIGHER DEGREES

#### *Master of Science (MSc) in:*

- Applied Psychology
- Aviation Management
- Criminology and Criminal Justice
- Development Statistics
- Economics
- Financial Economics
- Global Studies
- Government
- Management Studies
- Mediation Studies
- Public Sector Management
- Sociology
- Social Work
- Sports Management
- Strategic Leadership and Management
- Tourism Development and Management

#### *Master of Philosophy (MPhil) in:*

- Criminology and Criminal Justice
- Economics
- Economic Development Policy
- Gender and Development Studies
- Governance
- Government
- International Relations
- Management Studies
- Psychology
- Social Policy
- Social Work
- Sociology

#### *Doctor of Philosophy (PhD) in*

- Business Administration
- Criminology and Criminal Justice
- Economics
- Economic Development Policy
- Gender and Development Studies
- Governance
- Government
- International Relations

- Psychology
- Social Policy
- Social Work
- Sociology

## ARTHUR LOK JACK GRADUATE SCHOOL OF BUSINESS

### POSTGRADUATE DIPLOMAS

- Executive Diploma in Strategic Human Resource Management
- Graduate Diploma of Business Administration in International Trade, Logistics and Procurement
- International Diploma of Strategic Marketing

#### *MBAs and Master's Degrees:*

- Executive MBA (Trinidad, Tobago & Guyana)
- International MBA (Trinidad, Tobago & Guyana)
- International Master of Business Development and Innovation
- MBA in International Trade, Logistics and Procurement
- MBA in Sustainable Energy Management
- MSc International Finance
- Master of Human Resource Management
- Executive Master of Strategic Human Resource Management
- Master of Institutional Innovation
- Master of Port and Maritime Management (online)
- Master of Small and Medium Enterprise Management (online)
- International Master of Strategic Marketing

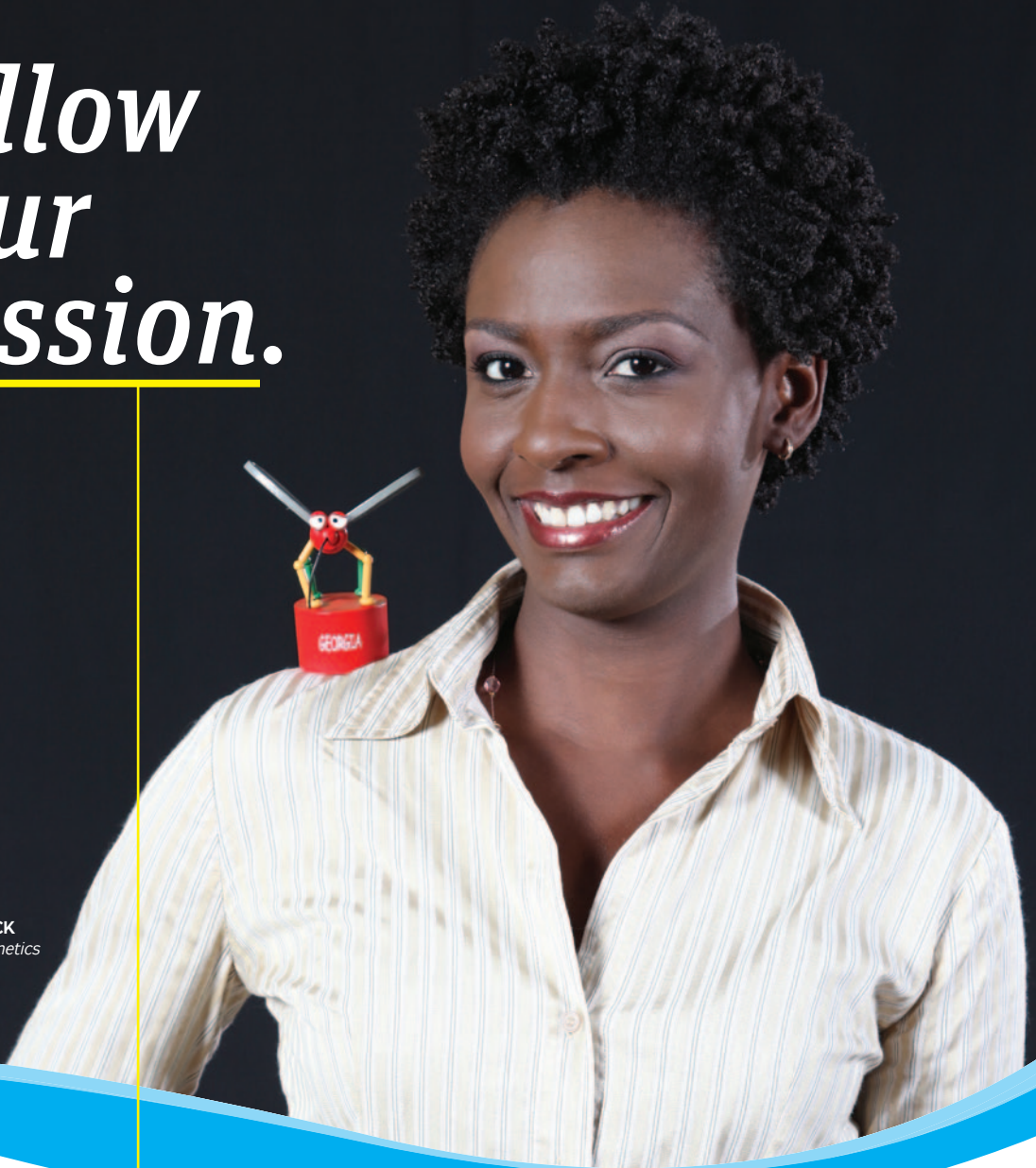
#### *Doctoral Degree*

- Doctor of Business Administration

## INSTITUTE FOR GENDER & DEVELOPMENT STUDIES

- Postgraduate Diploma in Gender and Development
- Master of Science (MSc) in Gender and Development
- Master of Philosophy (MPhil) in Interdisciplinary Gender Studies
- Doctor of Philosophy (PhD) in Interdisciplinary Gender Studies

# *Follow your passion.*



**ORCHID ALLCOCK**  
*PhD Molecular Genetics*

✕ Orchid is a Barbadian native and a graduate of The UWI Cave Hill. It was her determination to find work in her field that brought her to the Eric Williams Medical Sciences Complex in Trinidad, and it was here that she met Professor Christine Carrington of the Faculty of Medical Sciences and got bitten by the dengue research bug. Living in a tropical country, Orchid has always been fascinated by dengue which affects some 500 million persons each year. But without a vaccine, the only way to prevent the virus is through vector control. She hopes her research on the “evolution, population dynamics and phylogeography of Dengue viruses in the Americas” will help in that effort until a vaccine is discovered. Until then, she says she continues to be excited by the study of the dengue and other infectious diseases – tracking their evolution over time and predicting where they will strike next.



# CHOOSING THE RIGHT PROGRAMME FOR YOU

[sta.uwi.edu/admissions/postgrad](http://sta.uwi.edu/admissions/postgrad)  
[www.uwi.edu/grip](http://www.uwi.edu/grip)

At the graduate level, The University of the West Indies offers Taught Programmes and Research Degrees. Deciding on the right programme for you depends on your career path, your time and even your personality. Almost all higher degrees require a research project and some research degrees require have a taught component. Take a look at the definitions and descriptions that follow and if you're still having trouble making up your mind, you are welcome to contact The University for help and advice.

## TAUGHT PROGRAMMES

The programmes for the Master of Arts (MA) and the Master of Science (MSc) degrees and for Postgraduate Diplomas consist mainly of set lectures or seminars, coursework and either a project or a research paper. The Master's degree programme in Education (MEd) involves a short research report. The DM programmes extend over a period of either four (4) or six (6) years and train persons in particular specialties. There are specific regulations governing the DM programme in each speciality.

## RESEARCH DEGREES

The Master of Philosophy (MPhil), the Doctor of Philosophy (PhD) and the Doctor of Medicine (MD) degrees are research degrees. Research degrees involve independent study, directed by a supervisor, and the production of a thesis. The essential difference between the Master's and Doctoral levels, aside from the length of the registration period, lies in the quality of a successful PhD thesis, which must be judged to be the result of original research, to be an addition to knowledge and to be worthy of publication either in full or in an abridged form in a refereed journal. Similarly, the Doctor of Medicine (MD) must embody a critical account of the results of personal observation or original research in any branch of knowledge related to the curriculum for the degree of Bachelor of Medicine and Bachelor of Surgery.

The award of a PhD also requires the candidate to defend his/her thesis at a public oral examination. Many research degrees now contain a taught element. The intention of these taught courses is to provide students with research techniques and skills that will not only help

them to complete their current research topic, but will also stand them in good stead for life after university.

With the exception of holders of MPhil degrees from recognised universities, candidates for the PhD degree are normally required to register for the MPhil degree in the first instance. However, provision now exists for persons to be accepted directly to the PhD having completed a taught Master's. The regulations also allow for a student registered in the MPhil programme to apply for an upgrade in registration to Doctoral level without first submitting a Master's dissertation. This, of course, requires that the student has given evidence of having the qualifications necessary for writing a thesis for the PhD

If you decide to pursue a research degree, it is very important that the thesis topic you choose is of genuine and sustainable interest.

## PERIOD OF STUDY

The academic year is divided into two semesters as follows:

- Semester I – August to December
- Semester II – January to May

Candidates for the MPhil or PhD degree may register during the first two weeks of either semester but it is more usual for such students to begin their studies at the start of the academic year. A candidate wishing to pursue a taught Master's degree or an Advanced Diploma programme MUST begin his/her studies at the beginning of the academic year.

Students from Trinidad & Tobago may be registered for full-time or part-time studies. You will not be registered for full-time studies if you spend an average of twelve or more hours a week in paid employment. Proof of leave of absence from your job must be submitted at time of registration. Overseas students must register for full-time studies.

## TIME LIMITS

The following table shows the time limitation (in years) for research degrees:

	MPhil	PhD/MD
Full-time Minimum	2	3
Full-time Maximum	3	5
Part-time	5	7

## ACADEMIC SUPPORT

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Each research student is assigned one or sometimes two supervisors who will guide the student through his/her studies. The appointment of a supervisor is recommended by the relevant Head of Department after careful consideration of the Faculty member's expertise and experience. By the end of the first semester after registration, a Committee of Advisors shall be appointed by the Campus Committee for Graduate Studies & Research. This Committee shall comprise a minimum of three (3) persons, including the supervisor of your research.

## ASSESSMENT

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### Taught Programmes

The methods of assessment may vary, but examinations are conducted mainly by written papers supplemented by in-course testing, practical examinations, a project report, a research paper, or a combination of these methods. Candidates are required to pass all courses and all coursework, designated by the Department as forming part of the higher degree programme for which they are registered, with a mark of 50% or better in coursework and in course examinations.

### MPhil/PhD/MD Thesis and Examination

All research degrees are examined by thesis. Research students will be required to follow and pass at least two (2) relevant departmental courses before being allowed to submit their thesis. MPhil research students will be required to read courses totalling a minimum of six (6) credits while a candidate for the PhD degree is required to read courses totalling a minimum of nine (9) credits and pass both the coursework and the written examinations before being allowed to submit their thesis. For the MPhil degree the candidate may be required to take an oral examination. Every candidate for the PhD must defend his/her thesis by an oral examination.

## UPGRADING OF REGISTRATION

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Postgraduate students who are registered for the MPhil degree and who wish to be considered for the upgrading of their registration must apply to do so in the second year of registration on the written recommendation of their supervisor(s). Applications for upgrading will not be considered after the third year of registration. Applicants must have completed all departmental coursework requirements by this time and must defend their proposal for upgrading at a Faculty seminar.

A supervisor must state why he/she considers the

student to be outstanding and whether in his/her opinion the work can be developed to the level of the PhD

All recommendations from Departments for PhD registrations are subject to the approval of the School for Graduate Studies & Research.

A candidate who is unsuccessful in the examination for the PhD may apply to the Board for Graduate Studies and Research to be allowed to resubmit the thesis or a revised version of it for examination for an MPhil degree. A candidate who is registered for the PhD and who has not yet submitted the thesis for examination may apply to the Campus Committee to change registration to MPhil, and submit the thesis for examination for the MPhil degree.

Where these applications are granted, the registration for the PhD will lapse and the registration for the MPhil will be deemed to have started from the date of registration for the PhD.

If, in the opinion of the Examiners, a PhD thesis is of insufficient merit to justify the award of the PhD degree, the Examiners may, without further test, recommend to the Board for Graduate Studies and Research that the candidate be permitted to resubmit the thesis with revision for the MPhil degree, or that the MPhil be awarded without further revision of the work.

## GRADUATE RESEARCH SEMINARS

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Students enrolled for MPhil Degrees must satisfactorily complete at least two research seminars to be convened by the relevant Head of Department, prior to the submission of the MPhil thesis. Students enrolled for a PhD or MD degree must satisfactorily complete three (3) such seminars. Assessment of the students' seminars must be included in their progress report.



# Your only limit is your imagination.



✕ Dr. Kim Mallalieu imagined being a trail-blazing pioneer in engineering education and is now a senior lecturer and leader of the Communication Systems Group, Department of Electrical & Computer Engineering. She also developed the Master's degree programme in Regulation and Policy in Telecommunications (MRP Telecommunications). As a child, it was the inner workings of a telephone ringer that sparked her interest in engineering. Today, she leads research projects to develop communication and wireless technologies to help alleviate poverty in the Caribbean. Her students won the 2010 Massachusetts Institute of Technology (MIT) NextLab Award for Excellence in Technology Innovation for their mobile phone application designed to track package and courier activities and display locations on maps in real time. More recently, she has been involved in the mFisheries project, building mobile applications for local small-scale fisherfolk.

**DR. KIM MALLALIEU**

*BS Electrical Engineering, MIT*

*MS Optics, University of Rochester*

*PhD, University College London*

*Fulbright Fellow and repeat Visiting Scientist at MIT*



# FACULTY OF ENGINEERING

[sta.uwi.edu/eng](http://sta.uwi.edu/eng)

## MESSAGE FROM THE DEAN



On behalf of the Faculty, I extend a warm welcome to all new and returning postgraduate students for the upcoming Academic Year. For those of you who are first time registrants in our Postgraduate programmes and who have first degrees from this Faculty, I wish a very special welcome back home. We

feel honoured that you chose the Faculty of Engineering of The University of the West Indies for your postgraduate study. I do hope that your stay here would be a productive, enjoyable and rewarding experience.

As we try to grapple with the global economic crisis, we need to be more aware of the needs of the region and to focus our teaching and research activities on fulfilling those needs. We have never forgotten that the University has a high priority mandate to fulfil in supporting the region in which it is located. In this light, I note that as part of your programme, you may be required to conduct research as a class or major project. I encourage you to focus on the types of projects which would address the myriad of challenges that face our region and to do so in a creative and innovative manner.

We have also been doing our part in making our contribution to the Caribbean region. Indeed, in its effort to enhance its continuing education offerings, and to improve its service to the Caribbean region, the Faculty is now formulating a plan to expand its postgraduate programmes using rigorous online distance teaching mechanisms. You will hear more about this in the near future.

We are here to help you achieve your goals and urge you to also do your part and to work hard towards completing your programme. We have noted over the years that the majority of Master's students progress at a satisfactory rate in the written examinations but falter in the completion of their projects. For the most part, and as far as we could tell, this occurs because without the implicit discipline of classes and exams at the project phase, students succumb to the demands of the workplace and to family life. A fulltime Master's degree could be completed in less than two years; a part-time degree can be completed in three. We urge you to recognise the demands and challenges of postgraduate life and to commit to these

anticipated timelines. You will be doing yourself a great disservice otherwise.

We wish you the greatest success in your future careers.

### **Brian Copeland**

*BSc (Eng), MSc (Toronto), PhD (USC)  
Professor and Dean, Faculty of Engineering*

## ABOUT THE FACULTY

It has often been demonstrated that the emphasis of the work undertaken by professional engineers changes as their careers progress. As a result, professionals often require re-training or further training during the course of their careers. For this purpose, it is important to the industry that there is a wide-ranging and active programme of postgraduate studies available at the University. To this end, the Faculty of Engineering offers a range of Master's and Postgraduate Diploma courses, which are primarily taught courses, assessed by written papers and a project. The project may be of an industry-driven or professional nature, or a research project.

The MPhil and PhD degrees are not normally considered to be qualifications for professional practice in the broader sense, as they may not necessarily allow for registration as a professional engineer. As a consequence, the Faculty of Engineering may allow suitably qualified non-engineering graduates who obtained their degrees at the Honours level, to register for higher degrees by research. However, such students may be required to take a qualifying examination on topics that would enhance the student's academic competence in the proposed area of research.

### Departments

- Chemical Engineering
- Civil & Environmental Engineering
- Electrical & Computer Engineering
- Geomatics Engineering & Land Management
- Mechanical & Manufacturing Engineering

### Research Units

- Engineering Institute
- Centre for Geospatial Studies
- Centre for Enterprise Research Integration

### Journals

- West Indian Journal of Engineering  
[sta.uwi.edu/eng/wije](http://sta.uwi.edu/eng/wije)

## General Admission Requirements

### *Diploma & MSc Programmes*

Candidates seeking entry to the Diploma and Master's programmes in the Faculty should hold a Bachelor's degree (Second Class Honours or above) in Engineering (or an equivalent qualification from an approved university) with a speciality in the area in which they wish to pursue, e.g. Civil Engineering, Chemical Engineering etc.

In some instances, students may be accepted with a BSc in Natural Sciences or an equivalent qualification, for example, MSc Food Science and Technology. In addition to this, it is required, but in some cases not essential, that students have at least one year of relevant work experience. In instances where students do not have sufficient training in the area in which they want to specialise, they may be required to take qualifying examinations or sit in on undergraduate courses.

### *MPhil Programmes*

Candidates seeking entry into the MPhil programmes should hold a Bachelor's degree (Second Class Honours or above) in Engineering or Natural Sciences (or an equivalent qualification) with a specialisation in the area of the programme they wish to pursue.

### *PhD Programmes*

Candidates seeking entry directly into the PhD programmes should hold a Master's degree in Engineering from an approved university with a specialisation in the area of study they wish to pursue. The Master's degree should have involved a substantial thesis. All other candidates are required to register for the MPhil degrees and then transfer or upgrade to the PhD.

In some cases, students may be required to attend an interview prior to being accepted. In exceptional cases, students may be admitted with a Pass degree or based on their work experience. Students applying for MPhil and/or PhD degrees must prepare an appropriate research proposal for consideration. The availability of MPhil and PhD places depends on the availability of the appropriate supervisor in the proposed subject area. Further information on this and other requirements can be obtained from the Dean's Office or respective Departments

## PROGRAMME INFORMATION

### DEPARTMENT OF CHEMICAL ENGINEERING

The Department of Chemical Engineering is deeply committed to providing national and regional service to the process industries. These industries include the full spectrum available in the Caribbean - petroleum and petrochemicals, bauxite, and food - to name a few. The Units of Food Science and Technology, and Petroleum Studies in the Department of Chemical Engineering, have

specific remits to serve those industries.

Research in the Department of Chemical Engineering is aimed at the development of the indigenous resources of the Caribbean region. The broad areas of research in the Department are as follows:

- Agricultural Crop Processing
- Biochemical Engineering
- Carbon Dioxide Sequestration
- Desalination
- Electrochemistry, Petrochemicals, Molecular modeling
- Enhanced Oil Recovery
- Food Science & Technology
- Food Dehydration
- Food Fermentations
- Food Product Development
- Food Safety & Risk Assessment
- Gas Hydrates
- Heavy Oil Recovery
- Industrial Pollution Control
- Mineral Processing
- Multi-phase Flow
- Natural Gas Engineering
- Near Critical Fluid Extraction
- Palaeontology
- Petroleum Processing Technology
- Process Design, Optimisation and Control
- Reaction Engineering
- Reservoir Engineering
- Separation & Extraction Processes
- Stratigraphy & Sedimentology
- Utilisation of Biomass

### **Chemical and Process Engineering**

The three MSc programmes in Chemical and Process Engineering are designed to provide more depth in the core process engineering skills relevant in industry. Students have the option to pursue a technical, management or environmental engineering track. In addition to course work, projects offer students the opportunity to gain research experience in energy, biochemical engineering, process simulation and control, extraction and natural products processing, or to pursue industrial design and processing Innovations of their choice.

### *MSc in Chemical and Process Engineering*

### *MSc in Chemical and Process Engineering with Management*

### *MSc in Chemical and Process Engineering with Environmental Engineering*

### *MPhil/PhD in Chemical and Process Engineering*

The aims and objectives of these programmes are to ensure technical deepening and broadening beyond the level covered by the BSc Honours Degree, to allow students to engage in creative and innovative development of Engineering technology to gain experience in team-working

while broadening the knowledge base through research and experimentation and to meet the full requisites of UK SPEC for eventual registration of our graduates as Chartered Engineers.

### **Entry Requirements**

#### *Admission of Applicants with an Honours Degree*

The minimum requirement for admission to the taught Master's programme is normally a Lower Second Class Honours degree or its equivalent from an approved tertiary level institution. The minimum admission requirement for MPhil and PhD programmes is normally an Upper Second Class Honours degree or its equivalent. Further information on direct admission to MPhil and PhD programmes is available in Section 1, Regulations 6-8 of the Regulations for Graduate Diplomas and Degrees.

#### *Admission of Applicants with a Pass Degree*

The admission of applicants with a Pass degree requires a statement from the Department on the suitability of the applicant to pursue graduate studies at The University of the West Indies. Candidates admitted with a Pass degree may be required to register for such supplementary courses as the Department stipulates.

#### *Admission of Applicants without a First Degree*

Persons without a first degree from an approved tertiary level institution may be considered for admission to the MSc degree programme. A recommendation from the Department to the Campus Committee that The University accept such an applicant must be accompanied by a full statement of the applicant's academic qualifications and work experience, and an overall assessment of the ability of the applicant to pursue graduate studies at the University of the West Indies. This recommendation must be forwarded to the Board for final approval. Candidates admitted without a degree may be required to register for such supplementary courses as the Department stipulates.

#### *Food Science and Technology Unit*

The Food Science and Technology Unit is equipped with science laboratories that include a semi-commercial processing hall containing a range of small-scale equipment suitably instrumented for the systematic study of operations involved in the food industry; a food microbiology laboratory, a quality control laboratory, a food research laboratory with specialized analytical equipment, and a sensory evaluation facility.

Areas of current research include food analysis, food safety and risk assessment, food preference and sensory studies, food fermentations, milk, meat, fish and seafood, fruit and vegetable microbiology and technology, food dehydration, and root crop processing.

The Unit maintains links with the food processing industry and other relevant stakeholders particularly in

the area of food product development/developmental research, including microbial, sensorial and physico-chemical analyses. Staff are also involved in scientific and technical societies, in particular, the Institute of Food Technologists (USA), the Canadian Institute of Food Science & Technology and the Institute of Food Science & Technology (UK). Staff members also have numerous contacts with overseas institutions which they visit, and in which they engage. Many linkages exist with national and international development agencies. Industry internships are NORMALLY offered to students who have been successful in ALL courses.

#### *MSc in Food Science & Technology*

#### *MPhil in Food Science & Technology*

#### *PhD in Food Science & Technology*

Graduates of these programmes have found employment in the food industry, mainly in research and development, quality control and production management. Some individuals are engaged in research and innovation in government and industry-sponsored research organizations. Other graduates are academic staff within universities. Many opportunities also arise within the catering and pharmaceutical industries, in teaching, in libraries and information centres, and within overseas institutions and development agencies.

#### *Petroleum Studies Unit*

Petroleum Engineering involves the application of earth and physical sciences to the evaluation and exploitation of natural hydrocarbon resources. The dominant problems of the petroleum engineer are those of flow and equilibrium in porous media, in vertical and horizontal well bores, in surface pipelines and in primary process equipment. The complexity of the hydrocarbon fluids, and the geological strata involved in flow in reservoirs and production systems raises problems requiring sophisticated numerical techniques for their solution. In the practical field, drilling and production continually pose new engineering problems requiring engineered solutions.

Strong links with both industry and government are maintained because we understand the need for an interchange of advice and ideas. Industry also provides us with financial support for certain academic posts and scholarships. Visiting lecturers from the industry and government establishments make an important contribution to the more specialised teaching of the MSc programme. There is strong interaction with the Society of Petroleum Engineers (SPE), an international learned society which has been most generous in its support of Petroleum Engineering at UWI, including scholarship support, running a student paper and welcoming students to their meetings and conferences.



### **MSc in Petroleum Engineering**

### **MSc in Reservoir Engineering**

The Petroleum Engineering MSc programme is a conversion programme from other engineering and science-based degree foundations into the specialities of Petroleum Engineering. The content of the course is aimed at providing the necessary background for employment in the oil and gas industry, or a springboard for a research degree, as well as serving as a refresher for those already working in industry. Applicants should possess at least a Second Class Honours degree in Engineering, Natural Sciences (Physics and Chemistry Majors), Earth Science or an equivalent qualification, in respect of either Engineering and/or Management.

Reservoir Engineering is a sub-set of Petroleum Engineering where understanding of the reservoir is studied in more detail. Reservoir Engineers seek to economically optimize the exploration of the reservoir. Applicants should possess at least a Second Class Honours degree in Engineering or Natural Sciences (Physics, Chemistry, or Mathematics majors) or Earth Sciences, and preferably a minimum of one (1) year of relevant industry experience.

*A candidate applying with a Pass degree may be considered for entry, provided that the candidate has acceptable industrial experience. The course of study is normally made up of eight (8) courses, a research methods course and an independent project. The courses and the research project provide the basis for the students to acquire a measure of specialisation and provide the background for further work, research and development.*

### **MPhil /PhD in Petroleum Engineering**

### **MPhil /PhD in Petroleum Geoscience**

### **MPhil /PhD in Geoscience**

#### **Dr. Gail S.H. Baccus-Taylor (Head)**

Mrs. Veronica Corbie (Administrative Assistant)

Mrs. Natalie Thomas-Chance (Secretary)

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## **DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING**

Civil Engineering is intimately concerned with what is called the 'built environment'. In this regard, it is directed at the provision of facilities that can be used beneficially by the community. The Civil Engineering industry is of strategic national and regional importance in the Caribbean. An important aspect of research in the Department is the role of the construction sector in the local, national economies.

Because Civil Engineering works are essentially "resource hungry", that is to say, they consume large quantities of materials in their creation, there is considerable potential for cost savings in the use of materials for construction. One way of achieving this is through the more imaginative use of traditional materials. Another is to develop entirely new materials from indigenous sources. Materials research is therefore an area accorded high priority by the Department.

Other areas of priority take account of the special conditions under which Civil Engineering works are carried out in the Caribbean. This is true of the organisation and management of labour, the techniques of construction, operation and maintenance of facilities, no less than of the design of systems and the specification of materials.

The research interests of the Department are thus directly related to the critical needs and interests of the wider community. There are eight (8) laboratories in the Department: Structures, Concrete, Fluid Mechanics, Environmental Engineering, Soil Mechanics, Highway Materials, Geology and Transportation, to which a new computing facility has recently been added.

The main areas of research are:

- Analysis and Design of Structures
- Analysis and Design of Hydraulic Systems
- Analysis and Design of Foundations
- Environmental Engineering
- Transport Engineering
- Materials Engineering
- Civil Engineering Economics
- Civil Engineering Project Management
- Disaster Mitigation and Management
- Computer Aided Engineering and Design

### **PG Diploma/MSc in Coastal Engineering and Management**

Integrated coastal zone management in the wider Caribbean is recognized as the approach for ensuring the survival and sustainable development of the coastal resources of the region. The Coastal Zone Manager needs to have a pool of knowledge and skills that support reliable decision-making for the preservation, enhancement and sustainable development of the coastal zone.

These programmes provide advanced and specialized knowledge in the field of coastal engineering and management associated with the natural and man-made coastal zone infrastructure. Graduates are equipped with the knowledge of coastal processes and coastal engineering techniques required for the assessment of coastal defence systems and the design of coastal engineering schemes, with particular emphasis on Caribbean conditions.

### **Structure of Programmes**

Both the PG Diploma and the MSc are offered part-time and full-time, each over a period of between two (minimum) and four (maximum) semesters for the taught component.



The course is designed to be delivered either as a distance learning course or through weekly face to face sessions. All course notes are available on the My-eLearning platform, which enables the distance mode delivery and encourages participation across all Caribbean Islands. To provide distance mode students with some face to face contact, both with staff and fellow students, the course includes three one week intensive sessions for group activities, field trips and group design exercises. For students who are based in Trinidad, the face to face lecturing option is available.

### Regulations and Entry Requirements

1. A first degree (lower second class honours minimum) from an approved University in the Natural Sciences, Planning, Civil Engineering, Environmental Engineering, Surveying, Land Information, or
2. An accredited BTech or HND/Associate Degree in Civil Engineering plus five (5) years related postgraduate experience.

### *PG Diploma in Construction Engineering*

### *PG Diploma in Construction Engineering & Management*

### *PG Diploma in Construction Management*

### *MSc (Eng) in Construction Management*

### Entry Requirements

Candidates should normally have a minimum of one year's appropriate practical experience as well as either:

- A Bachelor's Degree in Civil, Structural, Construction, Building Engineering, Quantity Surveying, Land Surveying, or
- An equivalent qualification.

### *MPhil/ PhD in Construction Engineering & Management*

### *MPhil/ PhD in Construction Management*

### Entry Requirements

The regulations for the MPhil in Construction Engineering & Management or Construction Management would require:

- A good honours degree (Upper Second Class) in one of the construction-related professions, e.g., Civil Engineering,
- Building Engineering, Architecture, Quantity Surveying, Planning, Land Surveying, etc.
- At least one (1) year of relevant industrial experience.
- Before completion must have passed a course in Research Methodology

For the Construction Management or Construction Engineering & Management Programme, the applicant must possess:

- A first degree with Honours (Upper Second Class) in Civil or Structural Engineering, Construction, Building or
- Architectural Engineering or
- An equivalent acceptable qualification and
- At least one (1) year of relevant industrial experience

*A candidate may be required to sit an entrance examination and/or complete introductory/qualifying courses before being allowed to read for the MPhil or PhD degree.*

### *PG Diploma / MSc in Environmental Engineering*

### *MSc in Civil Engineering*

### *MSc in Civil with Environmental Engineering*

Environmental Engineering in the Caribbean is concerned primarily with the provision of an adequate supply of safe and potable water, the prevention of pollution of land, water and air, the collection, treatment and disposal of solid and hazardous wastes, urban and land drainage, forest and soil conservation, management and mitigation of natural and industrial disasters, safety, management of resources in the coastal zone, the protection of public health and the economics of sustainable development.

Students receive both a theoretical and practical approach to environmental problems that will ultimately lead to improved effectiveness of environmental management. This approach appeals particularly to Chemical, Civil and Agricultural Engineers. However, experience has shown that Mechanical/Industrial engineers and those with first degrees in the Natural Sciences, Economics and Mathematics gain from these courses of study. Participants are trained to plan and design engineering works related to the preservation and improvement of the environment. They are encouraged to adopt a holistic approach to solving environmental problems. They are encouraged to become aware of major environmental concerns – global, regional and local – and to become familiar with instruments and techniques used for the measurement of indices of environmental quality.

The programmes are offered both part-time and full-time. Part-time students are normally expected to complete the examination requirements within four (4) semesters and to complete the project in accordance with the relevant University Regulations. Full-time students: Normally expected to complete the examination requirements within two (2) semesters and to complete the project in accordance with the relevant University Regulations.

### Entry Requirements

Applicants must have a Bachelor's Degree in Engineering or an equivalent qualification. Candidates with a Bachelor's Degree in the physical sciences will be considered if they have at least one (1) year relevant work experience. Qualifying examinations may also be prescribed for such candidates.

### *PG Diploma / MSc in Water and Wastewater Services Management*

These programmes have been developed to address the current needs for skilled personnel in the expanding water and wastewater sectors in Trinidad and Tobago and the Caribbean. Through the courses, students will acquire deeper

knowledge and understanding in technical and management aspects of the industry. Students will make immediate impact by doing research projects that address real problems in the sectors. Industry is involved in the programme via the delivery of lectures, the hosting of field trips and the identification and co-supervision of the research projects.

Students may pursue these programmes either part-time or full-time. Part-time students are normally expected to complete the examination requirements within four (4) semesters and to complete the project in accordance with the relevant University Regulations. Full-time students: Normally expected to complete the examination requirements within two (2) semesters and to complete the project in accordance with the relevant University Regulations.

**Mr. Raymond Charles (Head)**

Ms. Alisa Valentine (Secretary, Ag.)

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## DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

The Department of Electrical and Computer Engineering offers undergraduate and postgraduate programmes of study and engages in development and research activities, with a strong emphasis on regional relevance. It also enjoys close collaborative relationships with a number of academic and commercial institutions.

The Department comprises five thematic Groups which deliver curricula and pursue research and development, specific to disciplines within the broad fields of Electrical and Computer Engineering. These thematic Groups are as follows:

- Communication Systems
- Computer Systems Engineering
- Control Systems
- Electronic Systems
- Energy Systems

The Department recognizes the many dimensions of responsibility associated with the engineering profession and the multi-faceted role that the engineer plays in society. Its programmes of study, development and research therefore emphasize not only technical themes but also technical communications, inter-disciplinary work and a variety of themes relating to professional integrity.

The Communication Systems Group conducts research and collaborative work in mobile technologies for development; cognitive, semantic and related technologies for productivity enhancement; and communications network and application performance studies. An area of keen research is the application of information and

communications technologies, particularly mobile technologies, among underserved Caribbean communities.

- The Computer Systems Engineering Group conducts research, and collaborative work, in the areas of Computer Architecture and Organisation, Embedded systems design & application, Video/Audio processing for Multimedia applications, Artificial Intelligence & Robotics.
- The Control Systems Group applies computer and communications technologies to the programming, design and application of Real time Controllers, Programmable Logic Controllers and Distributed Control Systems. The Group also focuses on design strategies, including H2/H optimisation.
- The Electronic Systems Group engages in ongoing activities in the design of reconfigurable logic systems using the ever-increasing family of static RAM base programmable logic devices such as the Field Programmable Gate Array (FPGA) and the Complex Programmable Logic Device (CPLD). In addition, there are collaborative efforts with the University of Calgary on the application of current conveyors in analog electronic circuits.
- Research in Energy Systems deals with practical operating and planning issues in regional electrical systems, at the utility and industrial level. Current research focuses on analysis and simulation of power systems, wind energy and control of electrical machines using discrete signal processing.

Aside from the traditional focus areas, the Department conducts extensive research in Steelpan Technology and has recently opened a Steelpan Research Lab. The Department is at the forefront of research in the technology of the steel pan and the commercial development of the instrument.

In addition to these formal areas, the Department manages the Real Time Systems Group (RTSG), which explores mechanisms for seeding and nurturing technological innovation and entrepreneurship activity in the Caribbean and supports the Department's teaching environment and operational efficiencies. Students who participate in research and development in the RTSG find the experience to be richly rewarding. Some successful RTSG projects include: Energy Alive! CMAP (Call Monitoring and Accounting Package) for Borde Communication, TRIPOD/HORIZON SCADA - Intranet MMI for TRINMAR and an Electronic Cricket Scoreboard plus associated control software for the Queen's Park Cricket Club.

### **PG Diploma in Electrical & Computer Engineering**

The Department of Electrical and Computer Engineering offers a Postgraduate Diploma in Electrical and Computer Engineering with a major in Communication Systems; Control Systems; Energy Systems and Integrated Systems. The Diploma is offered full-time as well as part-time, through on-campus face to face delivery. Part-time students are

normally expected to fulfil the Diploma requirements in four (4) semesters while full-time students are normally expected to fulfil the Diploma requirements in two (2) semesters.

### Entry Requirements

The minimum entry requirements for this PG Diploma normally include a BSc (Hons) in Electrical and/or Computer Engineering, Mechanical Engineering, Natural Sciences (majoring in Electronics) and any other qualification deemed equivalent by the Faculty.

### **Master of Applied Science (MAsc) in Electrical & Computer Engineering**

*(with a major in Communication Systems, Control Systems, Energy Systems or Integrated Systems)*

The overall aim of this programme is to provide advanced exposure to the breadth and depth of Electrical and Computer Systems and technologies, as well as pertinent Engineering Practice, thereby enabling our graduates to demonstrate technical and commercial leadership. This is accomplished by improving business management and general research skills and facilitating the development of subject-specific skills and knowledge levels using existing and emerging technologies. Through this programme, the Department also aims to make a significant contribution to the pool of professional and technological resources available locally and regionally to support associated industry, teaching and research in locally and regionally-relevant Electrical & Computer Engineering-based areas.

### Entry Requirements

Admission into this programme requires a minimum of a BSc (Hons) in Electrical and/or Computer Engineering, Mechanical Engineering, Applied Physics (majoring in Electronics) and any other qualification deemed equivalent by the Faculty. The Energy Systems programme requires degrees in Electrical and/or Computer and Mechanical Engineering. Candidates with a BSc Third Class (Hons) Degree in Electrical Engineering may be considered for entry, subject to an evaluation of the BSc degree and relevant post-degree experience.

### **MPhil / PhD**

*(Communication Systems, Computer Systems Engineering, Control Systems, Integrated Systems and Energy Systems)*

#### **Prof. Stephan Gift (Head)**

Ms. Necole Blake (Postgraduate Assistant)  
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## **DEPARTMENT OF MECHANICAL & MANUFACTURING ENGINEERING**

The Department offers the facilities to carry out research leading to the MPhil and PhD degrees in a wide range of important areas: Mechanical, Industrial and Agricultural Engineering, Production Engineering and Management.

Research students register for the MPhil degree in the first instance and then may upgrade to the PhD degree. Students who already have a Master's degree, obtained through a substantial research project, may register directly for the PhD. A research student works in his/her chosen field of research under the guidance of a supervisor with substantial expertise and experience in the field.

Academic staff within the Department are active in several areas of research including:

- Thermodynamics, Heat Transfer and Renewable Energy Resources
- Manufacturing Technology and Materials
- Operations and Production Management
- Industrial Automation and AI Applications
- Theoretical and Applied Mechanics
- Agricultural Engineering

### **MSc in Production Engineering & Management**

#### **MSc in Production Management**

#### **MSc in Engineering Management**

#### **MSc in Manufacturing Engineering and Management**

All taught MSc programmes in the Department of Mechanical and Manufacturing Engineering are accredited to CEng (Chartered Engineer) level by the Institution of the Mechanical Engineers (UK). Therefore these programmes satisfy fully the engineering education requirements for Chartered Engineer at (CEng) level 2. The purpose of these programmes is to provide advanced education and training for graduates in Mechanical Engineering and equivalent graduates to meet current and future needs of manufacturing and allied industries.

The MSc in Manufacturing Engineering and Management is a newly revised programme which is planned to be launched in the 21014/2015 academic year. This programme is not currently accredited, however the department will be pursuing the accreditation following graduation of its first entry cohort.

### **MSc in Engineering Asset Management**

The purpose of the programme is to provide the industry with competent engineers capable of the acquisition, operation/maintenance, and disposition of the physical assets of the organisations.

### **MPhil / PhD in Engineering Design**

The Research Degree in Engineering Design is aimed at training students to carry out research and development in the area of Tool and Equipment Design for agriculture and related industry. This will cover field equipment from hand

tools and special accessories for local crops and products, to handling and pre-processing equipment for the food industry. Farm machinery design and development for small farm usage and for tropical crops will be encouraged.

### **MPhil / PhD in Crop Processing & Post-harvest Technology**

The Research Degree in Crop Processing & Post-harvest Technology is aimed at the training of graduate students in post-harvest technology, crop processing and agribusiness development. The emphasis will be on primary crop processing and post-harvest technology of perishables (high moisture content, biological products, e.g., cereal grains, vegetables, fish and meat) and durable (lower moisture content, e.g., cereal grains, oilseeds). Product and process development will be encouraged all within a framework of agribusiness development for the Caribbean. Developing improved systems to process and store tropical crops/foods and by-products can lead to increased agribusiness activities in the Caribbean. These include packinghouses for fruits, vegetables, root crops and cut flowers both for domestic and export markets and food processing industries which utilise tropical fruits, vegetables, fish meat, etc.

### **MPhil / PhD in Soil & Water Engineering**

The Research Degree in Soil & Water Engineering is aimed at the training of graduate students in Irrigation and Drainage Engineering, Soil Erosion and Conservation Engineering, Theory and Practices of Soil Cultivation and General Water Resources Planning and Development related to agriculture. Emphasis will be placed on modern methods of irrigation design and planning as well as on techniques of modifying the soil mechanical properties in order to improve soil workability by farm machinery and to minimise soil erosion. The research work in Soil & Water Engineering will also assess the effectiveness of new and existing techniques to reduce the related problems of soil erosion and degradation, poor drainage status and soil compaction under the impact of mechanical forces.

### **MPhil / PhD in Mechanical Engineering, Manufacturing Engineering, Industrial Engineering and Production Engineering and Management**

A research degree programme that leads to the award of a Master of Philosophy (MPhil) or a Doctor of Philosophy (PhD) in Mechanical Engineering, Manufacturing Engineering Management or Industrial Engineering is being offered by the Department. It is aimed at training students to carry out research and development in Advanced Engineering Mechanics and Design, Thermal Engineering and Energy Systems and Manufacturing Design, Processes and Systems. For the research degree in Industrial Engineering, the following areas will be emphasized: Advanced Information Systems and Technology, Manufacturing Systems and Technology,

Human Factors Engineering, Management Science and Operations Research.

### *Duration of Study*

It is envisaged that a Master's programme of research and study can be completed by full-time postgraduate students in two to three (2-3) calendar years. This will be encouraged. The time limits for completion of postgraduate degrees (MPhil and PhD) however, are those as normally specified by the University.

### **Entry Requirements**

The normal University Regulations will apply for entry into the MPhil programme specifically an Honours Degree in Engineering, Natural Sciences, Earth Sciences, Food Science, Agriculture, Agricultural Economics or any other suitable degree. The suitability of the applicant's undergraduate training as generally specified above will be matched to the specific degree of interest. Students with Pass Degrees will be accepted only under special circumstances principally related to postgraduate experience.

#### **Prof. Edwin Ekwue (Head)**

Prof. Chanan S Syan (Coordinator Postgraduate Programmes)

Ms. June Charles-Noray (Postgraduate Office Secretary)

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## **DEPARTMENT OF GEOMATICS ENGINEERING & LAND MANAGEMENT**

The emphasis of the educational and research programmes of this Department is the attainment of the major goals of the professions of planning and surveying. Postgraduate programmes leading to MPhil and PhD degrees are therefore oriented to the innovative adaptation of the already established body of knowledge and technology to the needs of the region. The Department offers Postgraduate Diplomas in the following fields: Land Administration and Geoinformatics, as well as MSc Programmes in Geoinformatics and Urban and Regional Planning.

Priority areas and new themes of research have been identified and are being pursued. The research focus extends to areas covering geomatics engineering, geodesy, land administration, spatial analysis, geoinformatics, spatial and settlements planning, the environment and ecosystems. The following are some topics of immediate concern:

- Multidisciplinary approach to mapping, monitoring, and modelling and land use/cover dynamics for the sustainable management of the environment and natural resources.
- Development of computational and algorithmic aspects of image processing for the extraction of spatial

information from aerial and satellite Imagery and Lidar

- Coastal zone management, developing plans for coastal zones, coastal erosion and modelling coastal changes for sustainable development.
- Comparative analysis of planning statutes and administrative structures in the Caribbean.
- Design for sustainable development of urban and other settlement areas, environmental planning and policy planning.
- Urban structure and urban form in the Caribbean.
- Community and participatory planning.
- Non-structural measures for hazard mitigation.
- Formulation and definition of national datums.
- Geohazards; flooding and landslides, developing plans for areas exposed to natural and man-made hazards.
- Global climate change, climate change and food security, sea level change.
- Land tenure rights and practices including family land in specific jurisdictions.
- Quality assurance of spatial data and other land-related information, development of standards for spatial data management.
- Design and Development of Spatial Data Infrastructures
- Relevant theory and methodology for Caribbean Planning and Resource Management.

Resources for research include automated field and GPS data recording and computation systems, photogrammetric and satellite images processing and analysis tools, GIS and mapping hardware and software, in addition to state-of-the-art computing and digital services facilities.

### **PG Diploma in Land Administration**

This programme is being developed to address the reform of the policies, procedures, statutes and institutions involved in Land Administration and Management throughout the Caribbean. This programme is a response to the need to maintain and strengthen the human resources employed in land administration and land management in key institutions of the state, and private or quasi-state sectors. The main condition for entry is a relevant first degree, and in addition relevant industrial experience or maturity and professional experience acceptable to the Faculty. Present entry requirements for either the MSc in Urban and Regional Planning or the MSc in Geoinformatics, are also acceptable.

### **PGDip / MSc in Geoinformatics**

The goal of the geoinformatics programmes is to provide high-quality professional graduate instructions in Geoinformatics that leads to productive careers and long life learning. Geoinformatics is a nascent multidisciplinary field in which graduates must be prepared to apply knowledge in new contexts, work cooperatively and communicate effectively. The graduates of the programme

will be able to explain the principles, theories, tools and techniques of Geoinformatics; apply specialized knowledge of Geoinformatics to a wide range of disciplines; use the skills required to work individually or as a member of a team; apply creative and critical thinking in solving applications in multidisciplinary areas using Geoinformatics; and formulate and effectively communicate professional opinions on topical issues.

### *Duration*

Both programmes are offered part-time and full-time. It is expected that full-time students will complete the PGDip in 9 months and the MSc programme in 12 months. Part-time students are expected to take two (2) calendar years for the PGDip programme and two and a half (2 1/2) calendar years for the MSc programme.

### **Entry Requirements**

The entry requirements for the programme are a Second Class BSc degree in Land Surveying, Engineering, Computer Science, Agriculture or Geography, which includes Mathematics and Computer Science at levels equivalent to the respective courses in the BSc degree (UWI) in Land Surveying. Prospective students will also be considered if they have a Diploma in Geoinformatics or an equivalent qualification acceptable to the Faculty of Engineering.

### **MSc in Urban & Regional Planning**

The MSc Urban and Regional Planning Programme is driven by the need to produce a cadre of planning professionals with a tailored education and training in Caribbean planning issues, which are distinct from other regions of the world by virtue of population dynamics, economic evolution, social problems and unique physical environment. The programme focuses on the evolution of theoretical perspectives on planning, especially with a developing country planning epistemology, it aims to equip the graduate with the knowledge associated with policy planning, strategic and development planning, physical planning and design, as well as development control in areas of development relevant to the Caribbean region.

### **MPhil/PhD in Geoinformatics**

The MPhil and PhD in Geoinformatics programmes were designed to meet the growing needs of the Caribbean region for high-level critical thinkers who will be able to undertake research and development necessary to compliment and support the efforts of Geoinformatics professionals in the region. This is especially significant as many small island states of the region, who are striving towards sustainable development and economic prosperity, require the expertise that will be made available from graduates of the MPhil and PhD programmes. The graduates from these programmes will have the education, methodologies and training to gather, manage, and analyze



information and contribute to the decision-making process effectively by developing solutions to support decision makers amongst others.

### ***MPhil / PhD in Surveying and Land Information Systems***

#### **Entry Requirements**

Students seeking admission to an MPhil programme in Surveying and Land Information should normally have either a Bachelor's degree with Second Class Honours in Land Surveying, or an equivalent qualification.

### ***MPhil / PhD in Urban and Regional Planning***

Urban and regional planning is the profession that deals with the understanding and management of land uses in the hierarchy of urban and regional settlements and the spatial relations of human activities. It is an interdisciplinary science that deals with the physical, environmental, social, economic and cultural aspects of human settlements in both urban and rural areas. The study programme for this MPhil/PhD provides students with the knowledge and understanding of comparative international theory and practice of urban and regional planning; Caribbean urban history and settlements structures; the Caribbean's natural resource base as islands and implications for economic development in sectors such as industry, tourism, agriculture, forestry and sustainable development; the legal and administrative structure governing Caribbean urban and regional planning and management including development planning and the regulation of land use and built development; and the manipulation and analysis of spatial data and information as part of research and policy formulation

#### **Dr. Bheshem Ramlal (Head)**

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Ms. Olawande Ojoade (Administrative Assistant)

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## **OFFICE OF THE DEAN**

### ***MSc /MPhil/ PhD in Project Management***

The objectives of the MSc in Project Management are to train and produce graduates who will be able to solve real-world management problems associated with the project cycle, and to exercise sound management judgement through practical application of Project Management concepts and skills; apply management principles to business situations; develop and communicate project financial and performance objectives; accurately develop Master Plans for projects and programmes, including tasks, budget and resource requirements; effectively monitor, control and report project costs, the schedules and quality/performance levels needed to meet agreed milestones and required levels of earned value; and provide effective leadership, promoting a true environment that will help motivate team members and resolve conflicts.

This is a Campus course involving the Faculty of Engineering, the Faculty of Social Sciences and the Arthur Lok Jack Graduate School of Business. The MSc programme is administered by the Department of Civil Engineering as a two-year evening programme and has been designed to appeal to professionals with a diverse range of backgrounds in Management, Engineering, Surveying, Planning and Development, etc. Participants are expected to complete the programme in a minimum of four (4) semesters or a maximum of six (6) semesters.

#### **Entry Requirements**

A first degree from an approved university in Project Management, Information Technology, Planning, Agriculture, Accounting, Engineering, Management Sciences, Economics, Architecture, Quantity Surveying, Land Surveying, or Construction Management. Applicants must possess sufficient related work experience that would assist the candidate in becoming eligible for registration in related professional associations and institutions.

*For further information, contact the Office of the Dean:*

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# Dig Deep



✕ Alpha Sennon took some time off from his first degree programme in Math and Physics to try to find his passion. He found it while digging around in his family's plot in Siparia. He returned to UWI and went on to graduate with a BSc in Agriculture (First Class Honours). Today, in addition to pursuing postgraduate studies in agriculture, he is a successful "agripreneur" and is as passionate about his business and his studies as he is about attracting more young people to take up careers in food and agriculture. His advice to them? "Get your hands dirty."

**ALPHA SENNON**  
*MPhil Agricultural Extension*



# FACULTY OF FOOD & AGRICULTURE

sta.uwi.edu/ffa

## MESSAGE FROM THE DEAN



The FFA offers postgraduate programmes at the taught Diploma/Masters and research-based MPhil and PhD levels in various fields. The disciplines represented in the FFA essentially cover subject matters that deal with human sustenance, wellbeing and welfare directly or indirectly, as well as food and nutrition security, environmental and

climate issues and energy. Some of the most pressing issues of the 21st century are covered by the disciplines represented in the FFA and provide platforms for you to make meaningful contributions to global efforts to mitigate the challenges and lead rich and productive life as well. If you need further elaboration and/or further information specific to a programme of interest, you may visit the office of the Head of the Department where the programme resides and/or contact the Deputy Dean, Graduate Studies and Innovation through the Office of the Dean of FFA. Further information on general regulations governing taught Masters and research-based postgraduate programmes can be obtained from the Office of Graduate Studies, located in the Student Administration Building. Please inform yourselves about opportunities for graduate studies in the FFA through various platforms and join the Faculty whose future has come.

### DR. ISAAC BEKELE

*BSc (Addis Ababa), MSc (Reading), PhD (Cornell)*  
Dean, Faculty of Food & Agriculture

## ABOUT THE FACULTY

In August 2012, The University took the decision to separate the Faculty of Science and Agriculture into two new Faculties: Food and Agriculture and Science and Technology. The formation of the new Faculty will allow The University to concentrate on the development of new technologies and systems that are needed to revolutionize agriculture in the Caribbean. That said, the Faculty of Food & Agriculture has a long history of excellence in teaching, research and outreach dating back to 1924 and the Imperial College of Agriculture (ICTA). ICTA gave way to the formation of the St. Augustine Campus of The University College of the West Indies in 1960, and the first faculty on the new campus was dedicated to the study of agriculture.

The Faculty is staffed by well-qualified and experienced academic and technical staff. Research is focused on the problems of low productivity in the agricultural sector in the Caribbean, as well as competitiveness and sustainability in the new global environment; agricultural biotechnology; soil and water conservation; crop and livestock production and post-harvest technology. There is close collaboration with other researchers in the Faculty of Science & Technology, the Faculty of Engineering and the School of Veterinary Science.

Funding support for research comes from various internal and external sources. Postgraduate students in the Faculty also have opportunities to participate in short-term visit to Universities abroad as exchange students. Most importantly, the Faculty provides an ideal environment for you to engage in research topics that area relevant to Small Island developing states in area of you interest.

### Dean's Office

- Journal of Tropical Agriculture: <http://sta.uwi.edu/tropicalagriculture/>
- University Field Station

### Departments

- Department of Agricultural Economics & Extension
- Department of Food Production
- Department of Geography

### FFA Affiliated Research Centre

- Cocoa Research Centre

## General Admission Requirements

### Diploma & MSc Programmes

Candidates seeking entry to the Diploma, MSc, or MPhil programmes must satisfy the minimum entry requirements of the School for Graduate Studies & Research (Lower Second Class Honours for MSc and Upper Second Class Honours or equivalent for MPhil). In exceptional cases, students may be admitted with a pass degree and/or considerable work experience in a related area.

### MPhil & PhD Programmes

For direct entry into the PhD programme, a student must satisfy minimum entry requirements of the School of Graduate Studies & Research AND have obtained a MPhil degree (or an equivalent qualification) in an appropriate field of study in science or agriculture from an approved tertiary level institution.

## PROGRAMME INFORMATION

### DEPARTMENT OF AGRICULTURAL ECONOMICS & EXTENSION

Research in the Department addresses issues in the agricultural sector of Caribbean countries with the objective of making a contribution towards the development and transformation of agriculture. Research in the department also addresses issues related to human nutrition in particular and health and wellness in general. Our research themes therefore take into consideration issues from farm to table and beyond. They include:

- Rural development using a multidisciplinary framework;
- Trade and Agricultural Policy
- Marketing and Agribusiness Management
- Environmental and Natural Resource Management.
- The organisation and management of Extension especially current trends such as decentralisation and privatisation;
- Planning, delivery (including the use of ICTs) and evaluation of Extension programmes dealing with trade
- Food and Nutrition security
- Nutrition, Health, and Wellbeing,
- Environmental issues in Agriculture;
- Emerging models such as Farmer Field Schools, Fisheries Extension and Forestry Extension.

The Department offers an MSc in Agricultural Economics which has courses in three core areas of specialisation-Trade Policy and Competitiveness; Marketing and Agribusiness Management; and Environmental and Natural Resource Economics. The Department also offers the MSc in Marketing and Agribusiness as well as the MPhil and PhD degrees in Agricultural Extension, Agricultural Economics and Human Ecology.

The Agricultural Economics degrees qualify graduates for employment as Agricultural Economists, Agricultural Planners, Development Bankers, Marketing Specialists, Rural Development Specialists, Environmental Specialists, Consultants or University Lecturers.

The Agricultural Extension degrees qualify graduates for employment as Extension Programme Planners, Communication Specialists, Rural Sociologists, Rural Development Specialists, University Lecturers, Consultants, and Youth Counsellors.

The Human Ecology degree with specialisations in Nutritional Sciences, Consumer Sciences and Food Service System Management prepares graduates for leadership roles in academia, government, industry (both private and public-sector enterprises) in the areas of specialisation.

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### DEPARTMENT OF FOOD PRODUCTION

The Department of Food Production has a diverse and dynamic graduate programme and offers MSc degrees in Tropical Animal Science and Production, Commodity Utilisation and Crop Protection (in conjunction with the Department of Life Sciences). MPhil and PhD degrees are also offered in the areas of Crop Science, Livestock Science, Soil Science, Geography, Earth and Environmental Science, and Food Safety and Quality.

In the Crop Science discipline, research is directed towards increasing productivity, quality and profitability, as well as post-harvest physiology and tropical commodity utilisation of field and vegetable crops. Facilities are available at The University Field Station for agronomic and horticultural experimentation, including equipment for cultivation, seed storage and plant propagation.

In Animal Science, work is ongoing with ducks, dairy cattle and goats, tropical hair sheep, poultry, and forage production. Research on captive rearing of wildlife species, in particular the agouti, capybara and iguana, is also undertaken.

In the field of Soil Science discipline, the main emphasis has been on soil as a key link in sustaining food production and ecosystem health. Fundamental studies on the genesis and classification of West Indian soils have also been carried out. Among the active programmes are management of soil/plant systems in relation to enhancing nutrient organic matter dynamics and its role in soil fertility maintenance; soil genesis; land use studies; hillside management; biological nitrogen fixation; pollution abatement; water yield and quality management; fertiliser management and use efficiency; performance and management of cricket pitches; enhancing productivity and efficiency in key regional agro-industries.

#### **PG Diploma/ MSc in Agricultural and Rural Development**

The Faculty offers postgraduate training by distance through the External Programme in Agriculture. This advanced programme leads to the award of Course certificates, Postgraduate diplomas and MSc degrees.

Set in the context of the Caribbean and the wider developing world, the programme has been designed to expose students to issues critical to the process of agricultural and rural development. The areas emphasised

include economics, planning, policy analysis, the environment, project evaluation, business management, gender issues, marketing and data analysis. New courses introduced include "The Sociology of Agrarian Transformation and Rural Development," "Crop Production and Development" and "Finance, Investment and Credit for Agribusiness and Rural Development."

Students are tutored by distance teaching methodologies using specially developed training materials as well as tutorial assistance through the University's Open Campus teleconferencing facilities.

### **PG Diploma/MSc in Crop Protection**

This programme offers advanced training in Tropical Crop Protection with emphasis on control of pests and weeds and management of tropical diseases of plants. Special emphasis is given to biological control of tropical pests, diseases and pathogens.

### **MSc in Tropical Animal Science and Production**

The MSc in Tropical Animal Science and Production programme offers advanced training in the science of animal production and captive rearing of untamed animals.

### **MSc in Tropical Commodity Utilisation**

The programme incorporates all the elements of food science and utilisation necessary to allow graduates the flexibility of self-employment as well as fitting them for successful employment in several sectors of the food industry.

### **MPhil and PhD Degrees**

The Department currently offers MPhil and PhD degree in the areas of Crop Science, Horticulture, Livestock Science, Food Quality and Safety, Soil Science, Earth and Environmental Science and Geography.

### **MPhil / PhD in Crop Science**

Students can carry out their research in aspects of crop production and utilisation spanning areas from crop propagation and agronomy to post-harvest physiology and commodity utilisation including tropical products development. The department can also provide training in sustainable farming systems and diversity studies in tropical root crops and selected tropical tree crops.

### **MPhil / PhD in Horticulture**

This programme provides advanced training in tropical horticulture that will equip graduates for careers in research, development and higher education. Research areas include germplasm evaluation, propagation and management of horticultural crops, landscape plants and turfgrasses and management of green spaces.

### **MPhil / PhD in Livestock Science**

Students have the opportunity to choose from a wide range of research activities in Tropical Livestock Science

and production. Current departmental research involves research in ruminant production and improvement; poultry production; rabbit production and captive production of the agouti.

### **MPhil / PhD in Soil Science**

Students may choose to pursue research in one of the following areas:

- Organic matter management for sustainable crop production
- Soil and land use studies
- Management of hill side soils
- Engineering properties of Caribbean soils

### **MPhil / PhD in Food Quality and Safety**

This programme will train students for careers in research and teaching in Tropical Earth and Environmental Science. A graduate from the MPhil programme could expect to take up a position as a research technician, or apply their skills in consultancy. 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 in forestry, agriculture or the oil industry, environmental consultants, university or college lecturers or other positions requiring sophisticated training at the PhD level.

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## **DEPARTMENT OF GEOGRAPHY**

Geography has been taught at the Mona Campus, Jamaica, since the 1960s. The Geography programme at St. Augustine began in 2005 in the Department of Food Production, and produced its first graduates in 2008. The current Department of Geography was created on 1 August 2012 as part of the new Faculty of Food and Agriculture and hosts the following research facilities: the GIS Research Laboratory and the Soils Laboratory. Research is currently being conducted on topics such as the caves of Trinidad and Tobago, the impacts of sea-level rise on coastal communities, and Amazon wetland dynamics.

### **MPhil / PhD in Geography**

This programme provides high quality research training in multi-disciplinary geographical research methods, to facilitate candidates to conduct research in areas of regional importance and international significance, and to



produce graduates capable of developing and leading their own research projects, either in academia or industry.

**Dr. Matthew Wilson (Head)**

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# Fill in the blanks.



✕ Dr. Debbie McCollin's research into the development of Trinidad and Tobago's formal health care system, from emancipation to independence, was originally inspired by the work of the first cohorts of local nurses in the first half of the 20th century. A neglected area in the country's history, she saw the need to include their stories as part of the true history of the islands. Listening to these women themselves she noticed that not only did society underestimate the role of medical practitioners, but that they "don't consider themselves a large part of our understanding of self and our bodies and sense of identity". But filling in one square led her to whole new untapped area of research .She developed a new appreciation for the role of traditional medicine practitioners – from the "bush doctor" to the average mother at home – and their place in the colourful history of local health care.

**DEBBIE MCCOLLIN**  
*PhD History*



# FACULTY OF HUMANITIES & EDUCATION

sta.uwi.edu/fhe

## MESSAGE FROM THE DEAN



As the faculty that houses the School of Education, the departments of Creative and Festival Arts, History, Literary, Cultural and Communication Studies, Modern Languages and Linguistics, and the Centre for Language Learning, the Faculty of Humanities and Education is the engine room of the

educative and humanizing impulse of The University of the West Indies. As educators, historians, writers, linguists, literary critics, performing and visual artists, we imagine ourselves as story tellers who remember in order for the present to recognise past efforts and their outcomes and, in so doing, envision a future that may not fall victim to past missteps.

Our goal is, in consonance with the vision and mission of The University, to assist in producing graduates who are creative problem solvers, imbued with a social conscience, committed to the integrity of the Caribbean region, and to the ties that bind all of humanity. In a collaborative effort and deploying the best technological tools available, the Faculty is committed to working with our students to strategically transform the educational process into a relevant, impactful, distinctive, and excellent tool for the development of the human resource base of the Caribbean.

We thank you for choosing our faculty as the home faculty for your research. It is our hope that by the end of your stay here we would have influenced you as much as you would have influenced us. Remember that for a university to be great, the quality of its research and innovation has to be of the highest standard. The UWI aims to be the best we can and we invite you to join us in achieving this goal.

Welcome to the Faculty of Humanities and Education.

### FUNSO AIYEJINA

*BA (Ile-Ife), MA (Acadia), PhD (UWI)*

*Professor and Dean, Faculty of Humanities & Education*

## ABOUT THE FACULTY

Our uniqueness lies in our scholarly exploration of the rich diversity of cultures, particularly the ancestral and emerging languages, literatures, and creative expressions of the Caribbean. Archaeology, Education, Carnival Arts,

Communication Studies, Creative Arts, Film, History, Linguistics, Literatures in English, Modern Languages, Music, and Theology, are some of the traditional academic platforms available in the Faculty. At the graduate level, our students have the opportunity to engage in traditional research as well as in intra- and inter-faculty multidisciplinary combinations and to participate in a number of cultural activities and international conferences that the Faculty organises.

In addition to the traditional disciplines in which impressive works have been produced by both our leading intellectuals and graduate students, we have recently added Cultural Studies, Creative Writing (Fiction) and Creative Design: Entrepreneurship to our offerings. Given the range of options now available in the Faculty, be mindful of the fact that what will distinguish your stay in the Faculty and The University will be the level of collaborative interaction with other researchers that you cultivate and the degree of impact that your research will have on the larger society.

### Career Options for Graduates

One of the popular misconceptions about the Faculty of Humanities & Education is that the range of occupational opportunities for its graduates is usually restricted to teaching, which is itself a uniquely satisfying and rewarding profession. Few rewards can outstrip the knowledge that one has contributed in a very direct way to the development of one's society. The quality of every society is determined by the quality of its teachers.

Beyond this, however, the disciplines within the Humanities, namely Creative Arts, Communication Studies, French, Hindi, History, Linguistics, Speech-Language Pathology, Literatures in English, Portuguese, Spanish all provide students with the necessary tools for those areas of the job market that require good interpersonal skills, creativity, self-awareness and a commitment to improving the lot of others.

There is therefore a vast range of occupations for which graduates in the Humanities are suited. These include Public Relations, Publishing, Communications and the Media, Advertising, Translating and Interpreting, Language and Speech Disorders, Entertainment, Material Production, Training Craft, Creative Writing and Library Science, Architecture and Creative Designing, Cultural Policy Formation and Cultural Enterprise Management. The Humanities provide the basis for development across a broad range of occupations, as well as for creating one's own job opportunities.

## Schools & Departments

*School of Education*

*School of Humanities*

- Creative and Festival Arts
- History
- Literary, Cultural and Communication Studies
- Modern Languages and Linguistics

Office of the Dean

## Research Units, Centres & Institutes

- Archaeology Centre
- Centre for Language Learning (CLL)
- Family Development & Children's Research Centre (FDCRC)

## Publications

- History in Action  
[mainlib.uwi.tt/epubs/historyaction](http://mainlib.uwi.tt/epubs/historyaction)

## General Admission Requirements

Candidates seeking entry to the Diploma, MA and MEd programmes in the Faculty should hold a Bachelor's degree (Second Class Honours or above) in Humanities or Education (or an equivalent qualification from an approved university) with a speciality in the programme area which they wish to pursue, e.g. History, Linguistics, Spanish etc.

In addition to this, it is recommended that students applying for the M.Ed. programmes be practising teachers with either a B.Ed. Degree (Upper Second Class Honours or above) or a Bachelor's degree and the Postgraduate Diploma in Education.

Candidates seeking entry into the MPhil programmes should hold a Bachelor's degree (Upper Second Class Honours or above) in Humanities or Education (or an equivalent qualification) with a speciality in the area they wish to pursue. Candidates seeking entry into the MPhil programme in Education should hold an M.Ed. degree with a B+ average. Applicants with an outstanding Bachelor's degree in areas outside of Education may be allowed to register for the MPhil but will have to pursue a number of departmental courses.

Candidates seeking entry into the PhD programmes should hold a Master's degree in Humanities or Education from an approved university with a speciality in the area of study they wish to pursue. The Master's degree should have involved a substantial thesis. All other candidates are required to register for the MPhil degrees and then transfer or upgrade to the PhD.

In some cases, students may be required to attend an interview prior to being accepted. In exceptional cases, students may be admitted with a Pass degree or based on their work experience. Students applying for MPhil and/or PhD degrees must prepare an appropriate research proposal for consideration. The availability of MPhil and PhD places depends on the availability of an appropriate

supervisor in the proposed subject area. Further information on this and other requirements can be obtained from the Office of the Dean or respective Departments.

## PROGRAMME INFORMATION

### SCHOOL OF EDUCATION

The graduate programmes of the School of Education are intended to develop a cadre of professionals capable of addressing the research, developmental, administrative, supervisory and instructional needs of the education sector of the region, served by The University.

The School of Education offers instruction towards the award of the Postgraduate Diploma in Education, the Master of Education (M.Ed.), the Master of Philosophy (MPhil) and the Doctor of Philosophy (PhD) in Education.

The Postgraduate Diploma in Education provides professional training for teachers who hold university degrees and who are teaching at the secondary level. The programme offered here is viewed as initial training which sensitises and orients teachers to the fundamentals of their profession. The primary concern is with developing a professional approach characterised by creativity, imagination, and the pursuit of professional and personal development.

The M.Ed. aims at advanced preparation for the classroom, the implementation of curriculum, and the management of schools and administrative units within an educational service. The MPhil is a research degree aimed at fulfilling the demand for new information drawn from the several fields contingent upon education. The PhD degree is intended to fulfil the need for generating and testing new hypotheses and ideas which can result in conceptual and systemic change in educational thought and in social action that affects the nature of education.

### *Postgraduate Diploma in Education (In-Service)*

This programme provides in-service training for teachers in the secondary sector. These teachers usually have a degree in an undergraduate academic discipline and come to the Faculty for professional training. You may choose from the following options:

- Teaching of English
- Teaching of Mathematics
- Teaching of Modern Languages
- Teaching of Social Sciences
- Teaching of Information Technology
- Teaching of Visual and Performing Arts
- Educational Administration
- Teaching of Science

### *Pre-Service Diploma in Education*

The programme offers professional training for persons interested in entering the teaching profession. Persons will be prepared for the teaching of Language Arts, Science including

Agricultural Science and Social Sciences (Geography, History, Social Studies, Sociology, Economics, and Accounts).

### **Master of Education (M.Ed.)**

This degree is done by coursework and teachers are required to attend classes and write examinations. They also write a short research report. Many of these graduates are employed as school principals and as officers within the Ministry of Education.

- M. Ed. (Concentration in) Curriculum
- M.Ed. Curriculum (Accelerated Programme offered in Tobago)
- M.Ed. (Concentration in) Youth Guidance
- M.Ed. Science Education
- M. Ed. Health Promotion
- M. Ed. Special and Inclusive Education

### **MA in Leadership in Technical and Vocational Education and Training and Workforce Development**

The Master of Arts (MA) degree in Leadership in Technical and Vocational Education and Training and Workforce Development programme is designed for a wide range of interested professionals. These include educational leaders in institutions with full or partial TVET curricula, training managers and coordinators in public and private organizations, school principals and administrators (at all levels of the school system), field operations and programme officers of Ministries of Education, managers and technical staff of National Training Agencies, and managers/coordinators of skills training programme in NGOs. Graduates of this advanced level programme will be prepared to meet the needs of public and private sector industrial organizations, training institutions, and Ministries of Education for individuals who are capable and prepared to facilitate/provide capacity building, quality training, and leadership to monitor and guide developments in TVET and WFD.

### **MPhil / PhD in Education**

These degrees are done essentially by research and graduates are usually interested in the more academic areas of education. Graduates of these programmes are often employed by the School as part-time tutors and lecturers to help deliver the Certificate and other programmes.

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## **SCHOOL OF HUMANITIES**

The School of Humanities offers students a wide range of options in Literary, Cultural and Communication Studies, Modern Languages and Linguistics, Creative and Festival Arts, and History. Of particular interest to students of the School of Humanities are the Alma Jordan Library's unique Caribbean resources which are held in the West Indiana and Special Collections Section. The collection contains books, serials, newspapers, theses, manuscripts, maps, photographs, prints, rare books and special archival collections. The Special Collections are generally unpublished source materials – personal papers, archival materials, manuscripts, rare books, photographs, and maps. Included among the special collections are several important collections of international significance.

### **DEPARTMENT OF CREATIVE AND FESTIVAL ARTS (DCFA)**

The Department of Creative and Festival Arts offers graduate programmes and cultural internships in culture and the creative arts at the highest levels of academic, professional and technical accreditation available at The University of the West Indies. The courses reflect the Department's consciousness of the region's multicultural and multi-ethnic context, by presenting a multiplicity of possible options and combinations.

The Department of Creative and Festival Arts offers graduate programmes in Arts and Cultural Enterprise Management and in Creative Design Entrepreneurship. In addition, there are occasional outreach courses in various fields for members of the public who may not qualify for admission to the regular programmes but who wish to benefit from the intellectual climate of the Department.

### **Postgraduate Diploma in Arts and Cultural Enterprise Management (ACEM)**

The Postgraduate Diploma in Arts and Cultural Enterprise Management is a trans-disciplinary programme that equips graduates to take an entrepreneurial role in the development and management of the artistic and cultural resources of the region. The programme is open to graduates in the humanities, social sciences or other related fields, as well as to managers of arts and cultural enterprises in the public and private sectors.

The course of study consists of one intensive mid – year session (May – August), followed by nine months of independent study.

### **Entry Requirements**

Candidates must normally have

1. A first degree from an approved university; OR
2. Academic qualifications decided by the university to be equivalent to a first degree; OR
3. Persons without the above qualifications but who may have experience in the field of study, along with



their referee reports and academic records may be recommended for admission based on the results of an interview and qualifying courses (Economics of Culture & Festival Management).

*Note: Persons without a background in the Arts will be required to take one practical course in the arts during the programme.*

### **MA Creative Design: Entrepreneurship**

The MA Creative Design: Entrepreneurship is targeted to persons who are engaged in, or who desire to pursue creative and entrepreneurial design activities that produce smart, interactive, ambient and innovative human centred systems and structures. The programme is full-time and will be taught and examined in three semesters. This cross disciplinary programme strives to achieve the following objectives:

- to equip individuals with a wide range of tools to identify, challenge, analyse;
- to provide individuals with the tools to develop design entrepreneurship skills;
- to create a culture of entrepreneurship;
- to guide students' perspectives in design.

### **Entry Requirements**

Candidates must normally have

- A first degree in a field appropriate to his/her area of study from an approved university;
- Applicants with other qualifications or experience will also be considered;
- All applicants will be required to submit a preliminary design concept of not more than 300 words.

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### **DEPARTMENT OF HISTORY**

The Department offers postgraduate programmes leading to the MA, MPhil and PhD degrees. The MA is based mainly on coursework, while the MPhil and PhD degrees are based mainly on theses. The Department has an Archaeology Centre that focuses on research in Amerindian culture and history. Postgraduate students can also get involved in the Voices of the Past Project which involves collecting oral history testimonies relevant to the History of Trinidad and Tobago from persons over 70 years of age.

### **MA History**

For the MA (History), students are required to read three year-long courses and write a research paper between 10,000 and 15,000 words. Each course is examined by means of coursework assessment and a final examination. The research paper carries 25% of the total mark for the programme. The programme is presently offered as a part-time programme, spread over two years, with students being admitted at the start of every second academic year. The main objective of the MA programme in History is to offer specialised training to teachers in the higher levels of secondary schools and other interested persons. It also acts as an excellent preparation for the MPhil and PhD programmes.

### **MPhil / PhD History**

Students of the MPhil and PhD programmes, except those who have already taken the MA programme in History, will be required to pass either Theory and Methods of History, or Historiography with special reference to the Caribbean, which are all year-long courses also offered for the MA students. The programme includes the presentation of a dissertation on an approved subject, generally involving original work, worthy of publication at the PhD level. The MPhil and PhD programmes involve in-depth research into a proposed area of study.

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### **DEPARTMENT OF LITERARY, CULTURAL AND COMMUNICATION STUDIES**

The MA by coursework and research is available in Literatures in English, Cultural Studies and Communication Studies. Students are also admitted to pursue full-time or part-time research for MPhil and PhD degrees.

Research degrees, MPhil and PhD, are available in all disciplines for which there are majors. All students entering the MPhil programme are now required to do at least one graduate course in research methods. Students must also fulfil the requirement of a postgraduate seminar presentation at least once per year.

### **MA in Cultural Studies**

Admission to the taught MA programme is based on an undergraduate degree and/or graduate diploma in a relevant discipline, usually in the Humanities or Social Sciences. The class of degree should be at least Lower Second Class Honours. Applicants are asked to submit a one-page statement of research interests discussing the areas or topics in Cultural Studies they are interested in

investigating in their MA research paper. The applications are ranked on the basis of the GPA of the undergraduate degree, the statement of research interests and the relevance of the applicant's disciplinary background to Cultural Studies. The number of candidates admitted depends on the availability of Cultural Studies staff to supervise MA research papers.

The aim of the degree is to equip candidates with the necessary knowledge to conduct independent research in Cultural Studies. Applications for this programme are invited biannually. The next intake is scheduled for 2014/2015.

### ***MA in Human Communication Studies***

The graduate programme is designed to provide candidates with the theoretical understandings and methods of the human communication discipline to critically explore and reflect upon the issues and questions that emerge out of the need to understand, negotiate and participate in the human communication interactions characterized by verbal and nonverbal exchanges. The programme focuses on the development of specific competences and specialized knowledge, skills and attitudes for the professional use and application of human communication theory and practice in a variety of fields in the MA stream.

### ***MA in Literatures in English***

This programme offers advanced training in the nature, theory and practice of literature to students with a first degree (at least Lower Second Class Honours) in the subject area, from a recognised university. The programme is currently only offered part-time over two academic years.

Students will be required to take eight (8) semester courses and a direct reading field in the student's research area. Students are required to submit a research paper within the range of 10,000 to 15,000 words within one academic year after completion of course work.

### ***MFA in Creative Writing – Prose Fiction***

The MFA Creative Writing – Prose Fiction provides, for established writers without certification and prospective writers already holding a first degree (in any field), a postgraduate course of study that will lead to an M.F.A. degree to be awarded on completion of a manuscript of fiction. The objectives of the degree are:

- to award certification for established and prospective writers of the region;
- to encourage and develop home-grown creative sensibilities in literary discourse;
- to reduce the need for overseas postgraduate qualification in Creative Writing;
- to promote and support literary scholarship in the region.

### ***MPhil / PhD in English, Cultural Studies and Communication Studies***

The Master of Philosophy (MPhil) and Doctor of Philosophy

(PhD) Literatures in English, Cultural Studies and Communication Studies are offered out of the Department of Literary, Cultural and Communication Studies. Students may be required to take a course in Methods of Research and Literary Scholarship and one other course. Prospective students must ensure that their topic of research is clearly defined and that there is a member of the faculty that can ably supervise their research.

### ***MPhil in Cultural Studies***

The norm for admissions to the MPhil in Cultural Studies is a First or Upper Second Class Honours degree in a relevant discipline, usually in the Humanities or Social Sciences, or an MA in the same. Admission to the programme will be determined by availability and deployment of appropriate supervisors. All applicants must prepare a research proposal for consideration. Guidelines for preparing the research proposal are available on the department's website, <http://sta.uwi.edu/fhe/dlcc/>

The applications are ranked on the basis of the research proposal and the relevance of the applicant's disciplinary background to Cultural Studies.

The aim of the degree is to equip candidates with the necessary knowledge and methodological skills to conduct independent, advanced research in Cultural Studies.

### ***PhD in Cultural Studies***

Admission to the PhD programme will be based on the possession of a Master's level degree in Cultural Studies or in a related discipline (usually in the Humanities or Social Sciences), and an appropriate research proposal. Acceptance to the programme will also be determined by staff deployment and availability for supervision.

The aim of the degree is to equip candidates with the necessary theoretical knowledge and methodological expertise to teach and to conduct advanced, original research in Cultural Studies at the postdoctoral level.

### ***MPhil / PhD in Human Communication Studies***

A graduate programme in human communication offers an opportunity to explore the linguistic and non-linguistic forces that influence and shape human communication. In thought and in expression, the need to communicate assumes form and substance. Study and research in human communication in the humanities and education disciplines can provide avenues for the interdisciplinary exploration of the nature, purpose and use of communication in classrooms, communities, the workplace and within the wider ambit of human and social interaction.

The graduate programme is designed to provide candidates with the theoretical understandings and methods of the human communication discipline to critically explore and reflect upon the issues and questions that emerge out of the need to understand, negotiate and participate in the human communication interactions characterized by verbal

and nonverbal exchanges. The programme focuses on the development of specific competences and specialized knowledge, skills and attitudes for:

- The professional use and application of human communication theory and practice in a variety of fields in the MA stream and,
- The investigation of human communication problems and challenges and the creation and documentation of new understandings of the nature and use of human communication in the MPhil and PhD stream.

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## DEPARTMENT OF MODERN LANGUAGES AND LINGUISTICS

The MA by coursework and research is available in Spanish, and Applied Linguistics, or any approved combination thereof. Students are also admitted to pursue full-time or part-time research for MPhil and PhD degrees.

We also offer a Postgraduate Diploma in TESOL (Teaching English to Speakers of Other Languages) and a Postgraduate Diploma in Conference Interpreting.

Research degrees, MPhil and PhD, are available in all disciplines for which there are majors. All students entering the MPhil programme are now required to do at least one graduate course in research methods. Students must also fulfill the requirement of a postgraduate seminar presentation at least once per year.

### *MA Applied Linguistics*

This programme is complete in itself but also feeds into the MPhil and PhD programmes by providing two years of concentrated coursework. The target group for this programme is persons involved in education, in particular language education.

The aim of the programme is to equip students with the necessary theoretical and practical knowledge to enable them to teach English to a variety of learners. The programme includes a course in language and learning disabilities as well as education courses in curriculum and assessment. Students must complete seven semester-long courses, a reading field and a research paper.

### *MA in English Language*

The purpose of this programme is to equip secondary and post-secondary teachers, as well as other interested persons, with the capacity to critically analyse the structures of the English language at all linguistic levels and to evaluate accurately the changing role of English language varieties in the Caribbean region as well as on a global scale. It necessarily equips

students with the capacity to critically analyse Caribbean vernacular language varieties and to accurately compare them with Standard English. They should be able to design courses to cater to diverse groups of learners whose native varieties may differ from Standard English in a range of ways.

The Programme specifically targets secondary and post-secondary teachers of English as well as teacher trainers, programme and course developers and scholars of the English language in all its aspects. It would be equally applicable to students throughout the Caribbean region as it would in Trinidad and Tobago.

It consists of eight (8) graduate courses and one (1) Research project which is to be an Action Research endeavour to be undertaken, whenever possible, in the classroom context.

### *MA in Spanish*

This programme targets students who hold a BA in Spanish from The UWI or a valid equivalent degree from another university. Additionally, students must have passed at least four (4) courses in Hispanic Literature in years II and III of the BA programme, all at or above the 'B' grade. Students who do not satisfy the requirements will be allowed to take a qualifying examination. It is a part-time programme and students are required to complete it in a maximum of three calendar years. Students are required to complete 4 semester courses in Hispanic Literature, three (3) additional courses (Methodology and Theory) and a research paper.

### *MPhil / PhD in Linguistics*

The norm for admission to the MPhil in Linguistics is a First or Second Class degree in Linguistics or an MA in the same. All students without a higher degree are required to pursue a core of coursework to expand and strengthen disciplinary knowledge acquired at the undergraduate level.

### *MPhil / PhD in Literatures in French or Spanish*

The Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) French OR Spanish are also offered. Students may be required to take a course in Methods of Research and Literary Scholarship. Prospective students must ensure that their topic of research is clearly defined and that there is a member of the faculty that can ably supervise their research.

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# Your only limit is your imagination.

✕ Professor Christine Carrington imagined saving lives. Her research on RNA viruses, such as Dengue and other mosquito-borne viruses has been instrumental in providing a better understanding of the emergence, spread and maintenance of these viruses in human populations. Professor Carrington lectures in the Department of Pre-Clinical Sciences and Deputy Dean for Graduate Studies and Research in the Faculty of Medical Sciences. What is her advice to those contemplating a graduate degree in Medicine? "Pick an area of study that you love and that you are willing to work hard at and you will find graduate studies to be both exciting and fulfilling".

**PROFESSOR CHRISTINE CARRINGTON**  
*BSc Hons University of London, PhD University of London, Trinidad and Tobago Government Scholar (1986) and Commonwealth Fellow*





# THE FACULTY OF MEDICAL SCIENCES

[sta.uwi.edu/fms/](http://sta.uwi.edu/fms/)

## MESSAGE FROM THE DEAN



I wish to extend a warm welcome to all potential postgraduate students. The decision to embark upon postgraduate study is no easy decision but if you choose to take that leap, you will not be disappointed in your decision. At the Faculty of Medical Sciences we are devoted to train health related professionals to meet and

improve the needs of those who are brought to our service. We not only hope to continue to our local environment but to span the Caribbean region and beyond. If your goal is to make an impact in the medical related fields then the Faculty of Medical Sciences is the place for you.

The Faculty offers Diploma, MSc, MPhil and PhD programmes in a wide range of disciplines within the areas of Veterinary Medicine, Nursing, preclinical, paraclinical and clinical sciences. It also offers professional training (DM programmes) in clinical specialties that is accepted as qualification to work as a consultant in the relevant area. Newly introduced to the Faculty is the MSc in Medical Microbiology programme. While the programmes currently on offer originate from the Schools of Medicine, Veterinary Medicine and Advanced Nursing Education, collaborative research between all schools including the Schools of Dentistry and Pharmacy is encouraged.

New initiatives aimed at enhancing the experiences of our graduate students include Library, research and grant writing workshops.

### **SAMUEL RAMSEWAK**

*MB BS, DGO, MRCOG, FRCOG, FACOG (Hon), FRCP (Glas), MD (O&G), CMTT*

*Professor and Dean, Faculty of Medical Sciences*

## ABOUT THE FACULTY

The Faculty of Medical Sciences consists of Schools of Medicine, Veterinary Medicine, Dentistry, Pharmacy, Advanced Nursing Education and Optometry programme and is accredited by the Caribbean Accreditation Authority for Education in Medicine and Other Health Professions (CAAM).

The Faculty is committed to the development of excellence in health research. While its research priorities are determined by local and regional needs, its perspective remains international through the development of productive research collaborations with renowned research institutions across the world. In so doing, the Faculty of Medical Sciences brings developed world technology to solve regional health problems as defined by regional governments and agencies.

### **Schools & Departments**

#### *Dean's Office*

- Optometry Programme

#### *School of Medicine*

- Department of Pre-Clinical Sciences
- Department of Para-Clinical Sciences
- Department of Clinical Medical Sciences
- Department of Clinical Surgical Sciences

*The University of the West Indies, School of Nursing, St. Augustine (UWISON, St. Augustine)*

#### *School of Dentistry*

#### *School of Pharmacy*

#### *School of Veterinary Medicine*

### **Research Clusters**

- Medicinal Natural Products Research
- Neuroscience/Neurodegenerative Diseases
- Type II Diabetes & Inflammatory Markers
- Metabolic Syndrome & COPD Research
- Tropical Medicine Cluster: Infectious Diseases
- Restorative Dental Sciences
- Child Dental Health/Dental Public Health
- Veterinary Sciences



## PROGRAMME INFORMATION

### DEPARTMENT OF PRE-CLINICAL SCIENCES

The Department offers MPhil and PhD degrees in Biochemistry, Human Anatomy, Human Nutrition, Human Physiology, Molecular Genetics and Neuroscience. Current areas of research include:

#### *MPhil / PhD in Biochemistry*

The postgraduate programme offers students the opportunity to do research in specific areas such as:

- Mechanistic and conformational studies of cytochrome oxidase.
- Cytochrome c-oxidase in neurological disorders of humans and animals.
- Biochemical and nutritional risk markers for coronary heart disease, diabetes and other chronic diseases.
- Calcium handling proteins in the diabetic heart.
- Adiponectin, inflammatory markers and risk of type II diabetes.
- Anticancer and other medicinal properties of Caribbean plant extracts.

#### *MPhil / PhD in Human Anatomy*

The postgraduate programme currently offers research in modern morphological and functional investigations of the brain in the normal and pathological conditions, for example, Alzheimer's disease and other mental disorders. Other specific areas include:

- Vagal involvement in peripheral neuropathy associated with chronic diabetic states.
- Effect of vagotomy on enteroendocrine cells in the gastrointestinal tract.
- Anatomical studies of the Agouti (*Dasyprocta Leporina*) including (i) vagal innervation of the gastrointestinal, respiratory and cardiovascular organs, (ii) skull morphology and morphometry and (iii) the brain in stereotaxic coordinates.
- Prevalence, ethnicity and polymorphism of anatomical variations and congenital malformations in Trinidad and Tobago.
- Effects of diabetes mellitus on the reproductive organs of Sprague Dawley rats.
- Effect of paw-paw seed extract on the histology and histochemistry of the testes in Sprague Dawley rats.

#### *MPhil / PhD in Human Physiology*

Human Physiology is the study of the normal biological systems in the body. The subject covers both macro systems (for example, the heart and circulation) and Microsystems (for example, the function of cell membrane proteins in maintaining the electrical properties of the cell). The postgraduate programme offers research in:

- The biological principles underlying learning and memory.

- Intrinsic physiological mechanisms that protect the brain from certain neurological disorders such as stroke, epilepsy, migraine and dementia.
- Development of new diagnostic criteria for cardiovascular and autonomic nervous systems. Mechanisms underlying obstructive airway diseases.
- Physiological actions of abused substances on the brain.
- Effects of environmental pollutants on respiratory functions.
- Development of non-invasive diagnostic criteria for diseases of the cardiovascular and autonomic nervous system

#### *MPhil / PhD in Molecular Genetics*

Students have the opportunity to do research in areas such as:

- Molecular epidemiology, evolution, and spatiotemporal dynamics of emerging and re-emerging viruses (e.g. Dengue, yellow fever and other insect vectored viruses, rabies).
- Factors involved in viral emergence, dispersal and maintenance (in particular zoonotic and vector-borne RNA viruses).
- Viral diversity in bats and bats as a source of emerging pathogens.
- Pathogens associated with acute undifferentiated febrile illnesses in Trinidad and Tobago.
- Viral discovery.
- Bioinformatic analyses of genetic data to develop an understanding of the pathogenesis of the various forms of cancer. (This work involves the construction of databases and software tools to manipulate and analyse gene-sequence data).

#### *MPhil / PhD in Neuroscience*

The postgraduate programme offers students the opportunity to do research on neurodegenerative disorders:

- Evaluation of neuroprotective drugs using ischemia and other neurodegenerative models.
- Protective effects of calorie restriction on aging and inflammation in the brain.
- The roles of excessive calorie intake, metabolic disorder and diabetes on brain function.
- Drug delivery systems for the treatment of neurodegenerative disorders.
- The role of immune mechanisms of the central nervous system in the pathogenesis of neurodegenerative disorders.
- Central nervous system development
- Effects of ultrasound on brain development

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## DEPARTMENT OF PARA-CLINICAL SCIENCES

The Department of Para-Clinical Sciences offers MPhil and PhD degrees in Pharmacology, Pathology (with specialisation in a specific sub-discipline), Medical Microbiology and Community Health.

### ***MPhil / PhD in Pharmacology***

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 the Pharmacology Unit aims to provide candidates with the requisite expertise in the concepts, approaches, and techniques of basic and clinical research and facilitates the development of independent investigators. The programme provides students with a solid foundation through coursework, research, and opportunities to develop communication and presentation skills. Current research areas within the Pharmacology Unit include:

- Preclinical investigation of local medicinal plants.
- Modulation of drug-induced hepatotoxicity.
- Obstructive respiratory disease
- Clinical pharmacology of antimicrobial use and abuse
- Cytochrome P4502D6 allele and genotype frequency in patients with major depression
- Alcoholism risks and protective factors in Trinidad and Tobago
- Alcohol challenge in the two major ethnic groups of Trinidad and Tobago.

### ***MPhil / PhD in Pathology***

MPhil and PhD degrees in Pathology are available in the various sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology.

Anatomical Pathology is concerned with the diagnosis of disease based on the gross, microscopic, and molecular examination of organs, tissues, and whole bodies. Current research resides in the areas of breast, colonic, prostate and cervical cancer, renal disease, wound healing and STI.

Chemical Pathology, also known as Clinical Biochemistry and Clinical Chemistry, is that branch of laboratory medicine in which chemical and biochemical methods are applied to the study of disease. The Chemical Pathology laboratory performs qualitative and quantitative analyses on body fluids such as blood, urine and spinal fluid among other materials. Chemical Pathology laboratory tests assist the physician in making a diagnosis. Current research areas include: research in diabetes, endocrinology and metabolism, risk factors and biomarkers in Alzheimer's disease, biomarkers in cardiovascular disease and drug abuse and the neonate.

Haematology is concerned with disordered physiology of haemopoetic systems and overlaps with oncology.

Research is presently being conducted in the area of Haemoglobinopathies.

Immunology deals with the physiological functioning of the immune system in health and disease, in particular malfunctions of the immune system in immunological disorders. Research is presently being conducted in the area of the impact of Sahara dust on health of the Caribbean peoples as well as immunophenotyping and cell cycle analysis by flow cytometry.

### ***MPhil / PhD in Medical Microbiology***

Microbiology is a branch of laboratory medicine that has several specialties that includes bacteriology, virology, mycology and parasitology. It deals with nature, epidemiology, disease processes, clinical features, diagnosis, treatment and prevention of the infections caused by microorganisms. The MPhil and PhD programmes are geared towards producing clinical scientists or medical consultants who are capable of assisting physicians in the management of infections and who can assist and advise hospitals' infection control programme. Current areas of research include molecular epidemiology and diagnostics, antimicrobial resistance and nosocomial infections, and infection control and prevention.

### ***MPhil / PhD in Community Health***

For further information please contact the Department of Para-Clinical Sciences.

In collaboration with the Psychiatric Unit Department of Medicine and the Department of Paraclinical Sciences:

- Prevalence of dementia in Trinidad and the region.
- Risk factors and biomarkers associated with Alzheimer's disease and other dementias.
- Dermatoglyphics in patients with bronchial asthma, pulmonary tuberculosis, schizophrenia, dementia and psychiatric disorders.

## ***POSTGRADUATE PROGRAMMES IN FAMILY MEDICINE***

The department offers three part-time programmes in Family Medicine, a postgraduate diploma, an MSc and a DM. Candidates are normally first registered for the diploma (2 years) and on successful completion may progress to the MSc (1 additional year) and likewise to the DM (1 more year).

### ***Diploma in Family Medicine***

This programme is aimed at primary care physicians working in the public healthcare system, recent graduates working in a primary care setting who are considering a career in full time primary care and general practitioners who are interested in upgrading their skills. The programme aims to provide education and training in primary care and family health relevant to the needs of the Caribbean community. It is designed 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 primary care

physicians in the reformed health sector. It also serves to provide a continuing education base for the development of a career structure for primary care physicians.

### ***MSc in Family Medicine***

This programme provides training in a wide range of knowledge, skills and attitudes appropriate to the practice of Family Medicine in the community. At the end of the programme students should have an enhanced knowledge of personal, family and social aspects of health, illness and disease, and knowledge and skills in health promotion, disease prevention and risk management, as well as professional competence, values and behaviours that are inherent to the discipline of Family Medicine. The programme also aims to enhance the skills of critical reflection and assessment of professional activities, enabling graduates to meet the changing health needs of patients, families, and their communities, and the changing demands of health care in modern societies.

### ***DM (Doctor of Medicine: Family Medicine)***

Students will not be allowed to register for the DM in Family Medicine without first satisfactorily completing the MSc in Family Medicine. This programme requires a fourth year of work, i.e. one additional year after the MSc. In this year participants are usually required to complete their MSc proposal. Although clinical work is a required part of the DM year, the major task is the actual data collection, data analysis and defense of the project in the final examination. University requirements also allow for an in-depth case book of at least 12 cases to be presented for the DM.

### ***Master of Public Health (MPH)***

This programme provides participants with the fundamental and critical skills for assessing community health problems and responding to public health challenges. It enables 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, and provides the skills 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.

The required minimum time for completion of the degree of Master of Public Health is 24 months. Candidates may pursue studies over two to four academic years. Such candidates will need to organize their time and attendance schedules bearing in mind the usual times and offerings of courses.

### **Entry Requirements:**

*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.

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## **DEPARTMENT OF CLINICAL MEDICAL SCIENCES**

The main Medical Hospital at the Eric Williams Medical Sciences Complex is geared to providing both general and specialist Medical and Surgical services. There are 3 blocks of clinical research laboratories in close proximity to the wards. There are also generous ambulatory health care facilities, 13 operating theatres, Nuclear Medicine, CAT Scanning and other Radiological facilities, as well as provisions for specialised areas of functional analysis, Intensive Care Units, Out-Patient Clinics and Accident and Emergency Units.

The Department of Clinical Medical Sciences offers the Postgraduate Diploma in the Management of HIV Infections, an MSc in Clinical Psychology, an MSc in Palliative Care and DM programmes in General Internal Medicine, Paediatrics, Psychiatry and Radiology.

### ***Postgraduate Diploma Management of HIV Infections***

This programme 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 is done through blended learning and shall include face-to-face, distance learning, debates and team presentations.

The programme enables persons to acquire essential knowledge and skills that will prepare them to provide care services for people living with and affected by HIV and AIDS. Persons will understand the transmission of HIV and strategies that can be used to prevent its spread in order to deliver the knowledge and skills for effective healthcare in relation to HIV. It also enables persons to provide a range of policy perspectives and developments in treatment and care of PLHA.

This programme is relevant for the following categories of individuals:

- Medical doctors, Pharmacists and Dentists
- Nurses with bachelor degrees from any recognized 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

### **MSc Clinical Psychology**

This two-year programme aims to produce graduates with the theoretical ability and practical skills in clinical psychology that will allow them to work in a variety of roles and settings within the Caribbean. The programme provides the means whereby all students can acquire and demonstrate substantial understanding of, and competence in

- the breadth of scientific psychology, its history of thought and development, its research methods, and its applications to the Caribbean situation;
- scientific, methodological and theoretical foundations of practice in the substantive area(s) of professional psychology in which the programme has its training emphasis;
- diagnosing or defining problems through psychological assessment and measurement and formulating and implementing intervention strategies (including training in empirically supported procedures);
- relevant issues of cultural and individual diversity and
- attitudes essential for life-long learning, scholarly inquire, and professional problem-solving as psychologists in the context of an evolving body of scientific and professional knowledge.

### **MSc Palliative Care**

This is a two-year part-time programme designed to meet the need of Clinical Practice in Trinidad and Tobago and the Caribbean. The programme runs jointly with Faculty from the Palliative Care Division of the University of Toronto.

This programme enables persons 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. It allows persons to understand strategies that can be used to ameliorate problems that arise in end of life care and to deliver the knowledge and skills for effective healthcare in relation to terminal illness. It also enables persons to provide a range of policy perspectives and developments in treatment and care of end stage diseases.

The programme is relevant for the following categories: Medical doctors, Nurses with graduate degrees from a recognized

university, Registered Nurses with a minimum of five (5) years experience, Social Workers with a graduate degree from any recognized 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 recognized university, Tutors and Lecturers in training institutions.

Mature students with alternative qualifications and considerable work experience will be considered on a case basis.

### **DM General Internal Medicine**

The Doctorate in General Internal Medicine - DM (Med.) or DM - is one component of a wider graduate programme in Internal Medicine (Internal Medicine) delivered by the Faculty of Medical Sciences, University of the West Indies, St. Augustine. The full range of options for training in Internal Medicine includes:

- The D.M. programme in Internal Medicine - consisting of a full 4-year residency, including an elective period for research of one year. This programme is also offered at our sister Campuses, Mona, Jamaica and Cave Hill Barbados.
- Modules in Internal Medicine - Practitioners from specialties outside Internal Medicine are allowed to access individual modules of the programme if desired ("selectives").

These programmes target doctors who have obtained an undergraduate degree in Medicine from a recognised University, and who have successfully completed their pre-registration training and are about to embark upon postgraduate training.

The aim of the DM in Internal Medicine is to train doctors in the specialty of Internal Medicine to a level that allows them to provide clinical support and administrative leadership to their Medicine Departments. Successful DM candidates will practice at the level of consultants in (General) Medicine. The programme will accept candidates at House Officer level with minimal experience in Internal Medicine and achieve the above goal within the four-year training period.

### **DM Paediatrics**

The DM Paediatrics is divided into two parts over four years. The DM Paediatrics is open to suitably qualified medical practitioners. It is a four-year professional and research training programme. Part I consists of rotations in inpatient, nursery and ambulatory areas, and training in basic research methodology and skills over a two year period. During Part II, the trainee will be expected to complete a research project, engage in subspecialty core rotations and assume a senior supervisory role in the Child Health Unit. Graduates shall be able to practice as independent consultants in Paediatrics and Child Health.

### **DM Psychiatry**

This programme aims to provide the graduate with the knowledge and skills to function as a consultant equipped for independent practice in hospital-based stand-alone facilities and community mental health. It is a -two -part programme that runs for a period of four (4) years. During Year 1 of Part I persons are given instructions in the Basic Medical Sciences (Neuroanatomy, Neurophysiology Psychology). In Year 2 of Part I, persons are exposed to instructions in Neurology and Psychiatry. In Part II (Year 3) persons can undertake an elective of their choice, provided that prior approval is obtained and are required to carry out their research project in this year. In the fourth year of the programme (Part II), the students continue working as a psychiatric resident at an approved general hospital, under supervision. By the end of the first semester of Year 4, the student will submit to the Faculty Committee for Graduate Studies, through the Director of the programme, a final report on his/her research project.

### **DM Radiology**

The DM in Radiology is delivered over four-years and is divided into two parts. Part I, which comprises a minimum of 45 weeks, consists of a course of study and examination in Radiological Anatomy, Techniques and Practical Procedures, Radiography and Physics and Apparatus Construction. Part II, which has a minimum 135 weeks, consists of training in Diagnostic in Departments and Institutions accredited for this purpose including Radiography, Computerised Tomography, Ultrasound, Nuclear Medicine and Magnetic Resonance Imaging. Candidates interested in this programme should be:

- 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.
- Candidates applying for entry to the DM (Radiology) programmes must, in addition to the above requirement, have completed six (6) months in General Medicine, General Surgery or Child Health and have completed at least one year in a clinical position after the internship period.

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## **DEPARTMENT OF CLINICAL SURGICAL SCIENCES**

The Department of Clinical Surgical Sciences offers Anaesthesia and Intensive Care, DM Obstetrics and Gynaecology, DM Orthopaedics, DM General Surgery, DM Emergency Medicine, Diploma in Emergency Medicine, DM Otorhinolaryngology and DM Ophthalmology.

### **Diploma in Emergency Medicine**

This is a part-time programme primarily aimed at specialists in fields other than Emergency Medicine who are likely to have a substantial responsibility in Emergency Care (for example, District Medical Officers who have regular sessions in the peripheral Emergency Departments, or Paediatricians with fixed sessions in the Paediatric Emergency Department of the Children's Hospital). 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.

### **DM Anaesthesia and Intensive Care**

The DM Anaesthesia and Intensive Care is open to registered medical practitioners in an approved residency programme. The four-year training required can be carried out at all Clinical Campuses of the University of the West Indies; or at one or more approved centres. The course is intended to prepare candidates for consultant anaesthetic responsibilities including teaching and research. The Department has a varied and interesting service commitment, including cardiac and neurosurgical anaesthesia, and is developing wider interests such as post-operative pain management. The Department has the responsibility for the Intensive Care Unit at the Eric Williams Medical Sciences Complex.

### **DM Obstetrics and Gynaecology**

The DM Obstetrics and Gynaecology is a two-part, four (4) year programme that enables graduates to work as consultants in the speciality. The course requirements are similar to those for membership in the Royal College of Obstetricians and Gynaecologists in the UK. Clinical work in the Department covers a wide range of operative procedures, medical and surgical disorders and obstetric abnormalities. There are organised ward rounds, tutorials, lectures and pathology and prenatal mortality conferences.

### **DM Ophthalmology**

This six year programme is divided into 3 parts (Part I, Part II, Part III). Part I of the programme is two years in duration and involves the study of the basic sciences including the anatomy of the eye, adnexae, visual pathways and associated aspects of head and neck and neuroanatomy, the physiology of the eye, adnexae and CNS, including general physiology (laws and phenomena), medicine in



association with ocular disease ( Diabetes, Hypertension, Collagen Vascular disease, Rheumatology, Thyroid, Sickle cell Anaemia, etc) and the basic principles of Pathology (with emphasis on Ocular pathology), Microbiology, Biochemistry.

Part II is one year in duration and covers the optics, theory and practice of refraction (including contact lens), the application of physical and physiological optics to clinical management and principles of instrumentation such as the direct and indirect ophthalmoscope, keratometers, focimeters, microscope. During this period the candidate will continue to gain clinical and surgical ophthalmology skills.

The final part (Part III) consists of three years, at least 2 of which must be spent locally and an elective one year period which must be 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, they 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 and research will be emphasized.

### **DM Otorhinolaryngology (ORL)**

This is a six year programme is designed to produce the future Otorhinolaryngologists of Trinidad and Tobago and the Caribbean. The Programme is divided into two Parts, Part 1(2 years) & Part 2 (4 years inclusive of one year elective).

The course is to be taught at the Eric Williams Medical Sciences Complex, San Fernando General Hospital and Port-of-Spain General Hospital, to enable the trainee to gain a wide exposure to different types of cases and to be taught by a wide variety of Otorhinolaryngology Specialists.

Persons interested in this programme should be:

- A graduate in Medicine of a University or Medical School recognized by The University of the West Indies.
- Fully registered in the territory or territories in which training will take place.

Candidates applying for entry to the DM programme in Otolaryngology, in addition to the requirements set out in a and b, must have completed six months in an approved post, in Emergency Medicine or a similar Department, Surgery or Community Health, in an approved hospital.

### **DM General Surgery**

The DM in General Surgery is a five (5) year programme that aims to produce individuals with sufficient knowledge, skill and experience to work as consultant surgeons. The course consists of two parts. In Part I of the programme, the trainee will rotate through specialties of General Surgery, Orthopaedics/Accident and Emergency Surgery, Neurological Surgery, Cardiothoracic Surgery and Paediatric Surgery. In Part II the trainee is required to submit a research project report or a casebook of 20 cases with commentaries.

### **DM Surgery (Orthopaedics)**

The DM Surgery (Orthopaedics) is a two-part, four and a half year programme intended to prepare a candidate to work as an Orthopaedic consultant with adequate ability to teach, impart rules of conduct, and guide independent research. Part I of the programme is devoted to various preclinical subjects concerning Orthopaedics, Traumatology and general principles of Surgery. Part II is devoted to various aspects of Orthopaedics, Traumatology and related subjects like Sports Medicine, Physiotherapy, Rehabilitation, Orthotics and Prosthetics. Students are required to write a casebook or thesis on any particular topic concerning Orthopaedics or Traumatology as part of their final assessment.

### **DM Surgery (Urology)**

This is a five (5) year programme that provides structured training in the surgical sub-specialty that deals with the diagnosis and treatment of diseases and disorders affecting the male genitourinary system and female urinary tract. This is an exciting and rapidly evolving field that is demanding in its application and techniques including endoscopic, laparoscopic and open surgical procedures, providing a versatility of approach in the management of a wide range of urological disorders. The training is aimed at producing a graduate who can perform and use appropriately the current techniques in general urology as well as treatment options in more specialised areas such as urologic oncology, urogynaecology, andrology, renal transplantation and vascular access, reconstructive urology, paediatric urology and endourology / laparoscopy.

## **PROGRAMMES IN EMERGENCY MEDICINE**

### **Diploma in Emergency Medicine**

This programme is an 18-month part-time programme primarily aimed at specialists in fields other than Emergency Medicine who are likely to have a substantial responsibility in Emergency Care (for example, District Medical Officers who have regular sessions in the peripheral Emergency Departments, or Paediatricians with fixed sessions in the Paediatric Department of the Children's Hospital). Practitioners from specialties outside Emergency Medicine are allowed to access individual modules of the programme if desired (Modules in Emergency Care).

The aim of the programme 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.

### **DM Emergency Medicine**

This is a full time four-year residency programme offered to junior doctors who wish to specialise in Emergency Medicine, but have little or no prior clinical experience. Candidates must be working in a hospital in Trinidad and Tobago that is recognised for graduate training. The

aim of the programme is to train doctors in the speciality 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.

**Professor Vijay Naraynsingh (Head)**

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**THE UWI SCHOOL OF NURSING, ST. AUGUSTINE (UWISON, St. Augustine)**

***MSc in Advanced Nursing (MSN)***

The Master of Sciences in Advanced Nursing (MSN) degree programme is designed to meet the critical need for leaders, teachers and advanced clinicians in Nursing. The programme is structured around the major components of theory, research and clinical practice. The concepts of leadership, critical thinking, decision making, and planned change are integrated throughout the curriculum. The graduate nursing student at UWISON will develop specific competencies through refinement of existing professional skills, expansion of the knowledge base for practice, and development of advanced proficiencies in particular areas of practice. The programme is offered full and part-time in modular format and includes different forms of Distance Education, print, media, teleconference, computer Assisted Instruction (CAI), mentoring and preceptor practicum.

The programme is open 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 presently held, and qualify for registration/licensure in the region served by the University of the West Indies. Candidates should have a total of three (3) years clinical experience post registration/licensure. Time spent on any educational programme is not included in this three (3) years practice requirement. They should also hold an undergraduate degree with not less than a Second Class Honours OR hold a postgraduate degree OR hold approved technical and/or professional qualification(s) awarded by an approved body and approved by this University. In addition, they should currently hold a position comparable for the area of the degree sought within the Regulations.

A candidate may be required to complete an entrance examination and/or attend an interview and/or have a period of orientation relevant to their programme of study before admission.

**Dr. Jacqueline Comerasamy (Director)**

Ms. Maria Brooks (Administrative Assistant)  
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**SCHOOL OF VETERINARY MEDICINE  
DEPARTMENT OF CLINICAL VETERINARY  
SCIENCE**

The Veterinary School is well-equipped with modern teaching and research laboratories which facilitate practical classes and ongoing research programmes. Lectures/ Problem-Based Learning (PBL) and tutorial classes are held in small classrooms and a large amphitheatre facilitates the demonstration of large animals. There are also animal and laboratory animal facilities and a post-mortem room. Research laboratories are supplied with state of the art equipment, and the research focus includes the development of new methods of diagnosis of food borne diseases, food safety and biosecurity.

The Veterinary Hospital caters to both large and small animals, and consists of 30 stalls, teaching and research laboratories, and operating theatres. Our diagnostic services provide x-ray examinations and include sophisticated techniques for the study of diseases. Due to the Hospital's provision of clinical services as well as outreach programmes, students are exposed to the study and research of a variety of diseases.

The School of Veterinary Medicine offers postgraduate studies leading to the degrees of MPhil and PhD in the disciplines of Veterinary Anatomy, Veterinary Physiology, Veterinary Microbiology, Veterinary Public Health, Veterinary Pathology, Veterinary Parasitology and Veterinary Clinical Medicine. The degree programmes are primarily by research and guided studies with limited course work requirements where necessary. As a postgraduate student in the SVM it is possible to do basic, applied and clinical research.

***MPhil / PhD in Veterinary Anatomy***

- Neuropathological evaluation of swayback disease as compared with Alzheimer's disease
- Rabbits as an animal model for Alzheimer's disease
- Anatomical studies in the agouti.
- Distribution and types of congenital abnormalities in animals
- Gross anatomical studies of rare species of animals

***MPhil / PhD in Veterinary Microbiology***

- Development of a nested-PCR method and the detection of Bartonella spp in blood
- Molecular diagnostics for Newcastle disease
- Enhancement of food safety programs in CARICOM through PCR- based diagnostics

- Isolation, characterisation and local production of novel *Bacillus thuringiensis* (BT) isolates with pesticidal properties
- Development of an in vivo system to monitor bacterial growth and colonisation

#### ***MPhil / PhD in Veterinary Parasitology***

- Investigations into the phytoacaricidal action of Neem oil in *Boophilus microplus*

#### ***MPhil / PhD in Veterinary Pathology***

- Hematological values in copper deficient sheep
- Studies on skeletal pathology of wildlife
- The role of pathology in forensic veterinary medicine
- The development and evaluation of health monitoring protocols for use in birds and reptiles
- Refinement of the use of field kits for use in the tropics

#### ***MPhil / PhD in 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)
- Grazing behaviour and physiological adaptability of large and small ruminants
- Attainment of puberty in buffalo heifers

#### ***MPhil / PhD in Veterinary Pharmacology***

- Evaluation and standardisation of medicinal plants with varied biological activity

#### ***MPhil / PhD in Veterinary Toxicology***

- Evaluation of risk factors associated with selenium status in dairy cows

#### ***MPhil / PhD in Veterinary Clinical Medicine***

- *Campylobacter fetus* subspp *venerealis* and *Trichomonas fetus* subspp *venerealis* in some selected dairy herds

#### ***MPhil / PhD in Veterinary Public Health and Epidemiology***

- Isolation and characterisation of *E. coli* and *Salmonella* spp in pets
- Use of a rapid assay system for detection of *Campylobacter* spp prevalence in chickens from 'pluck shops'
- Evaluation of the efficacy of *Brucella abortus* vaccine strain RB51 in domestic water buffalos (*Bubalus bulbalis*).
- Subclinical mastitis and antimicrobial residues in dairy cows
- Bacterial aetiology of pneumonia
- Microbial quality of antimicrobial residues in table eggs
- Evaluation of the antibacterial activity of plant extracts
- Microbial quality of water supplied to urban and rural communities

- Epidemiology of zoonotic bacterial diseases
- Microbial quality of ready-to-eat foods of animal origin
- Food safety problems in the Caribbean
- A study on Johné's disease (*Mycobacterium paratuberculosis*) in water buffalo using gamma interferon assay
- Comparison of the enzyme-linked immunosorbent assay (ELISA), gamma interferon assay and faecal examination in detecting subclinical infections by *Mycobacterium paratuberculosis*
- Toxoplasmosis in pregnant women and their offspring
- Dog bites in primary school children
- Use of herbal remedies in race horses

Other research areas available in the area of Veterinary Medicine can be obtained at the School.

#### **Professor Abiodun Adesiyun (Director)**

Mrs. Leslie Ann Romain-Hood (Senior Administrative Assistant)

Ms. Ruth Seerattan (Secretary)

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## SCHOOL OF DENTISTRY

The School of Dentistry is well equipped with state-of-the-art dental equipment and has ample clinical teaching space, a computer assisted learning facility, lecture rooms and a student recreation room. Although the School does not currently offer any graduate programmes, staff are involved in research, some of which is in collaboration with other departments and schools with graduate research programmes. Current research areas in the School of Dentistry include studies of tooth wear in Caribbean populations; dental education; dental materials science; oral health needs in young children; children's emergency dental care; dental health education; oral health promotion and dental health of people with special needs.

In addition to its teaching function, the Dental Hospital provides emergency dental facilities, radiology and diagnostic examinations, the treatment of trauma, deformities and malignancies by means of oral and maxillo-facial surgery and extensive restorative dentistry. Special attention is given to children's dental problems with particular emphasis on orthodontics, preventive dentistry and community dental health education.

### **Dr. Haytham Al Bayaty (Ag. Director)**

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## SCHOOL OF PHARMACY

The Pharmacy programme has existed within the Faculty since 1995 and was administered by the Department of Paraclinical Sciences. After considerable service and experience, the programme was recently upgraded to an independent School of Pharmacy. Although no graduate programmes are currently on offer, the School is currently in the process of developing MPhil and PhD degrees in Pharmaceutical Sciences and other postgraduate programmes. In addition staff are involved in the supervision of students enrolled in MPhil and PhD programmes in Pharmacology.

### **Dr. Sureshwar Pandey (Ag. Director)**

Mrs. Pat Cumberbatch (Administrative Assistant)

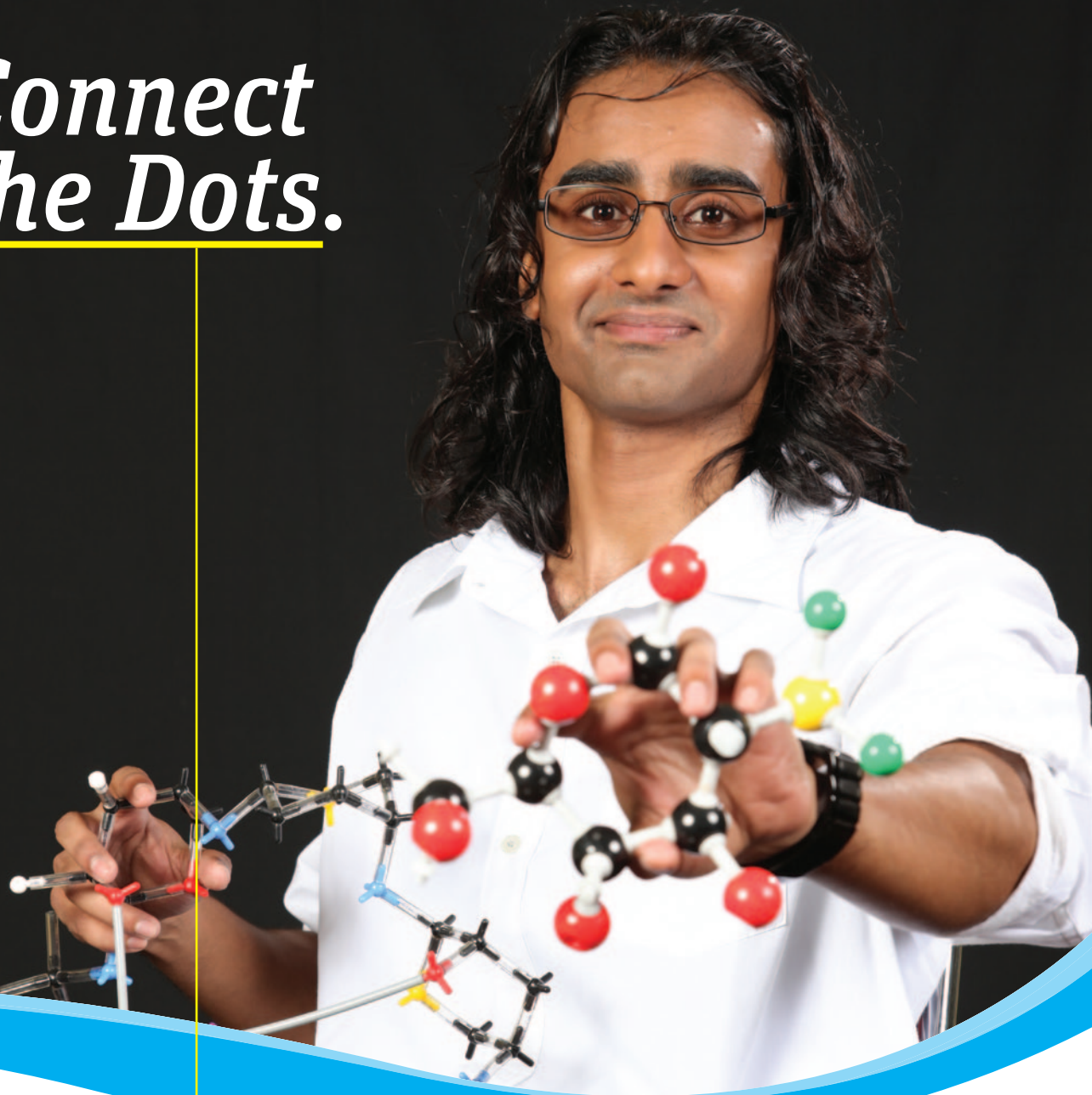
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# Connect the Dots.



Dr. Nigel Jalsa conducts research into the development of novel treatments for dengue viruses, but his study of cyclodextrin complexes which allow for the slow release of whatever molecule they carry in the middle and they hold in the middle, has applications for a variety of products ranging from pharmaceuticals, cosmetics and detergents. The field is so new however, that it's almost like connecting the dots – each step taking you to another, forming a picture so large and with so many possibilities that even he cannot imagine where his own research will someday lead.

**NIGEL JALSA**  
*PhD Chemistry*





# FACULTY OF SCIENCE & TECHNOLOGY

sta.uwi.edu/fst

## MESSAGE FROM THE DEAN



Welcome to the Faculty of Science & Technology (FST), The University of the West Indies, St. Augustine. We are extremely proud and delighted that you are considering the FST for your post-graduate training. This new Faculty, which partially replaces the former Faculty of Science & Agriculture, has a strong history in research,

innovation and development.

The FST is the second largest faculty at the St Augustine Campus and also the most diverse in terms of academic programmes offered. The Faculty has highly qualified and competent academic, administrative, technical and support staff, and many state-of-the-art laboratories. Several of our academic staff are world-renowned, and some were themselves, post-graduate students at the UWI.

We recognize that post-graduate students are the lifeblood of research and innovation in our faculty and will encourage you to develop new, creative and interesting ideas. Should you choose to join us, we promise to support you in this effort and offer you post-graduate training that is second to none, and an intellectually stimulating atmosphere conducive to development of critical thinking skills and research.

Please visit our website to learn more about our faculty and the work we do.

### INDAR RAMNARINE

*BSc (UWI), MSc (Wales), PhD (UWI), MBA (Herriot- Watt)  
Professor and Dean, Faculty of Science & Technology*

## ABOUT THE FACULTY

The Faculty of Science & Technology offers training at the postgraduate level in the Life and Physical Sciences and practical and business applications in areas such as Environmental Management, Natural Resources Management, Information Technology, Computational Mathematics, Material Science, Molecular Biology, Alternate Energy, Medical Physics and Natural Products. This training allows students to acquire the range of marketable skills, necessary for regional development and at the same time allow graduates to function in a global environment.

### Departments

- Chemistry
- Computing & Information Technology
- Life Sciences
- Mathematics & Statistics
- Physics

### Research Units

The Faculty's Electron Microscope Unit operates a Scanning Electron Microscope (SEM) and Transmission Electron Microscope (TEM) at the Eric Williams Medical Sciences Complex. This Unit facilitates both teaching and research activities at the Campus.

### General Admission Requirements

Candidates seeking entry to the Diploma, MSc, or MPhil programmes must satisfy the minimum entry requirements of the School for Graduate Studies & Research (Lower Second Class Honours for MSc and Upper Second Class Honours or equivalent for MPhil). In exceptional cases, students may be admitted with a pass degree and considerable work experience in a related area.

For direct entry into the PhD programme, a student must satisfy minimum entry requirements of the School of Graduate Studies & Research AND have obtained a MPhil degree (or an equivalent qualification) in an appropriate field of study in science or agriculture from an approved tertiary level institution.

## PROGRAMME INFORMATION

### DEPARTMENT OF CHEMISTRY

The Department of Chemistry offers graduate programmes leading to the MPhil and PhD degrees in the areas of Natural Products, Inorganic and Materials Chemistry, Environmental Chemistry and Waste Management, Bio-analytical Chemistry, Nuclear Magnetic and Nuclear Quadrupole Resonance Spectroscopy, Supramolecular Chemistry, Organic Synthesis, Solution Thermodynamics and studies on Emulsion Systems.

Students may register on a part-time or full-time basis, but the Department has found the former to be the more difficult route to a higher degree in Chemistry. Scholarships are available through the Board for Graduate Studies and Research to students of the highest academic standing. Some departmental funding in the form of demonstratorship is also available for registered

postgraduate students not on scholarship.

State of the art facilities for research in a variety of areas exist. Topics which are currently being actively investigated by staff, in conjunction with postgraduate students, include:

- Isolation and structure elucidation of Natural Products from terrestrial plants and marine organisms including synthesis and bioactivity testing;
- Optical, electronic, magnetic and catalytic properties of organometallic complexes;
- Rational design and construction of supramolecular assemblies;
- Environmental monitoring and hazardous waste management and disposal;
- Biosensors for environmental, clinical and forensic applications
- Applications of immobilised enzymes and biomolecules; bioseparation processes;
- Magnetic and quadrupole resonance studies of dynamic equilibria;
- Calorimetric studies of emulsion systems, e.g., in petroleum and cosmetic industries;
- The preparation of carbohydrates and novel boron-based catalysts for organic synthesis;
- Synthesis of plasticisers for use in cement admixtures
- Investigation of aggregate structure in biological membrane models;
- Polymer cracking using fluidisation techniques;
- Molecular modeling of synthetic membranes and assemblies;
- Synthesis of chiral ligands based on the [2.2] paracyclophane framework for use in chiral synthesis;
- Microbial degradation and fate of xenobiotics in environmental systems. Air quality monitoring; Endocrine disruptors in fresh watersystems.
- Corrosion chemistry; electroanalytical methods;
- Carbohydrate synthesis;
- Oxidation of methane;
- Enzymes in ionic liquids.

### ***MSc in Occupational and Environmental Safety and Health (OESH)***

Recent developments in areas such as legislation, global trade and rapidly changing technology, have placed new expectations and demands of occupational and environmental safety and health on governments, environmental management, business enterprises, educational institutions, trade unions, workers and the public. Within this scenario, there is an urgent and growing need for the development of a cadre of professionals with competencies in Occupational and Environmental Safety and Health (OESH).

The programme prepares participants to develop, design, implement and manage complex OESH programmes and systems and to provide consultancy services and to educate others.

#### **Professor Anderson Maxwell (Head)**

Mrs. R. Ali-Hassan (Administrative Assistant)  
Ms. Tamika Elcock (Administrative Assistant – Occupational Environmental Safety and Health MSc Programme)  
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### **DEPARTMENT OF COMPUTING & INFORMATION TECHNOLOGY**

The Department of Computing & Information Technology offers PhD and MPhil postgraduate research degrees in Computer Science as well as a taught MSc degree in Computer Science (Taught courses and a Research project).

The main research areas are Wireless and Mobile Computing, Distributed Systems E-Learning, Data Management and Data mining, Usability, Decision Support Systems Networking, Software Engineering, Internet Technologies, Geographic information Systems, Computer Security and Watermarking, Software engineering and Artificial Intelligence

#### ***MSc in Computer Science***

This programme is designed for Computer Science graduates who are in careers in the computing industry. It provides advanced training in many diverse areas of Computer Science.

#### **Entry Requirements**

To be admitted directly to the MSc in Computer Science, a candidate should normally possess a degree equivalent to a Lower Second Class BSc degree with a major in Computer Science. Candidates with lower qualifications may be considered, however but will be required to pass qualifying courses, as prescribed by the Department.

The MSc Computer Science is offered on both a part-time and full-time basis. The course of study will extend over one year of full-time or two years of part-time study.

#### **Dr. Permanand Mohan (Head)**

Ms. Stacey Greene-McNeil (Secretary)  
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## DEPARTMENT OF LIFE SCIENCES

The Department of Life Sciences specialises in two of the most innovative and dynamic areas of current research and development, namely Environmental Biology and Biotechnology. Environmental Biology research focuses on topics such as biodiversity, conservation biology, pollution impacts and management, and natural resources management (e.g. tropical forests, fisheries and aquaculture). There is also a long history of research and development projects in Biotechnology including Plant Tissue Culture. Recent research projects use molecular approaches such as Recombinant DNA Technology.

Research also focuses on providing new knowledge on the physiology and metabolism of tropical plants in important areas such as tuberisation, abscission and mechanism of resistance to pests and pathogens. Studies in Microbiology and Crop Protection are also important focal areas. In addition to the above, research is ongoing in the traditional disciplines such as Biochemistry, Botany, and Zoology, Ecology, Epidemiology and control of diseases of public health importance.

The Department offers postgraduate programmes leading to the award of MPhil and PhD degrees and has specialist laboratories in Biotechnology and Tissue Culture, Entomology, Environmental Biology, Ecology, Parasitology, Ecotoxicology, Biosystematics, Biochemistry, Histology, Microbiology, and Aquaculture and Fisheries. It also maintains the National Herbarium, Zoology Museum, Land Arthropod Collection and several greenhouses.

### ***Diploma/ MSc in Biodiversity Conservation & Sustainable Development in the Caribbean***

These Graduate Diploma and MSc programmes are taught programmes involving a blend of internet-based distance teaching and face-to-face training. They were designed to provide students with a set of skills that will allow them to advance their careers in the environmental management and biodiversity conservation fields within their government, public sector, NGOs and industrial organisations.

Participants should gain a comprehensive knowledge of the concepts and principles of a wide range of science and environmental management issues related to tropical biodiversity. Advanced practical skills in environmental monitoring, impact analysis, environmental management, data management and policy issues will be taught. Students will also acquire a working knowledge and appreciation of the major disciplines within environmental science; a multidisciplinary overview of environmental data collection and analysis; and an improved range of transferable skills including group work, scientific research, data analysis, report writing and oral presentation.

### **Duration**

- Students enrolled in the Diploma Programme will be required to complete the course in either 1 year (full time) or 2 years (part time).
- Students enrolled in the MSc Programme will be required to complete the degree in 1½ years (full time) or 3 years (part time).

### **Entry Requirements**

Candidates applying for admission are required to satisfy the relevant general regulations of the Faculty and the University's Board for Graduate Studies and Research. The prerequisite for entry into the programme is a bachelor's degree in one of the following disciplines: natural sciences, engineering, agricultural sciences, geography, education or an appropriate social sciences from an approved university, with at least lower second-class honours or a minimum GPA 2.0 (or equivalent qualification and work experience).

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## DEPARTMENT OF MATHEMATICS & STATISTICS

The Department of Mathematics and Statistics offers two taught graduate level degrees. These MSc degrees are awarded on the basis of taught courses and a project.

### ***MSc in Mathematics***

This degree is designed to provide quality education for students interested in pursuing a career in applications of mathematics, research and industry. Graduates from this degree programme will satisfy the growing national and regional need for skilled individuals to teach at the tertiary level. It will also will provide candidates with the strong theoretical background that is essential for pursuing a doctoral degree in Mathematics. It will also serve to prepare mathematics graduates for a career in industry that demands a high level of quantitative or analytical capacity.

### **Entry Requirements**

A candidate should normally possess a BSc degree with a major in Mathematics or equivalent with at least Lower Second Class Honours. Candidates with lower qualifications may be considered but will be required to pass qualifying courses, as prescribed by the department.

### **MSc in Statistics**

The MSc in Statistics prepares students for careers as professional statisticians working in such areas as economic statistics, bio-statistics or public health. It also provides a foundation for those who intend to continue to the PhD in statistics.

#### **Entry Requirements**

A candidate should possess a BSc degree with at least a Lower Second Class Honours or its equivalent. The course of study extends over two years of part-time study.

### **MPhil/PhD in Mathematics / Statistics**

The Department also offers MPhil and PhD research degrees in Mathematics and Statistics. These degrees are awarded on the submission and successful defence of a thesis.

In Mathematics, the current research areas include Graph Theory and Combinatorics, Theoretical and Computational Fluid Dynamics, Operations Research, Applied Mathematical Modelling and Nonlinear Dynamics.

At present the main areas of research in Statistics are in Statistical Inference, Bio-Statistics, Epidemiology, Bayesian Statistics, Computational Statistics, and Multivariate Statistics.

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## **DEPARTMENT OF PHYSICS**

### **MSc in Renewable Energy Technology (RET)**

This programme is designed to provide new graduates and persons already working in various sectors of the economy, with professional training and education in renewable energy technologies. It will provide expertise in these areas to help build capacity in the region and open possibilities for further study and research. Course content meets the needs of a broad range of professionals in occupations related to science and energy, and sustainable development, including natural scientists, engineers and technical-related professionals, as well as those from the social sciences such as administrators.

#### **Entry Requirements**

B.Sc. Science degree: Students normally would be required to have an Upper Second Class Honours degree in Physics, Mathematics or Engineering. Other qualifying students with a first degree would be required to undergo the Preliminary Study. Students must complete and pass this not-for-credit preparatory course prior to the first semester.

### **MPhil/PhD in Physics**

The Department of Physics offers opportunities for postgraduate studies leading to MPhil and PhD degrees by research and thesis. The research in progress, or research areas where activity is planned include:

#### **Fuel Cell and Lithium Battery Research:**

The fuel cell and lithium battery research is carried out at Caribbean's First Fuel Cell Materials Research Lab (FCMRL) at the Department of Physics and broad areas are as follows:

##### **a. Development of Membranes for Fuel Cells:**

The main area of research is to develop new and novel electrolyte membranes for applications in Polymer Electrolyte Membrane Fuel Cells (PEMFC), and Direct Methanol Fuel Cells (DMFC's). Various chemical and physical techniques are used to develop these membranes. The membranes developed are then evaluated using various characterization techniques and later tested in fuel cells. Research on materials for Solid Oxide Fuel Cells (SOFC's) will be started shortly.

##### **b. Development of Catalysts for Fuel Cells:**

New and novel catalysts are under the process of development at FCMRL. The goal is to develop new, non-platinum-based catalysts to work with the developed membranes. Research is also carried out on the nano tubular support for the catalysts and their testing in fuel cells.

##### **c. Modelling of Fuel Cells:**

Modelling is very important aspect of fuel cell development and is done to evaluate various parameters related to fuel cell in order to use the top to bottom approach in fuel cell development. Various models for different phenomenon are developed using various software's like Matlab etc.

##### **d. Development of Dye sensitized Solar Cells:**

Materials for application in dye sensitized solar cells are also synthesized and dyes are made in collaboration with Chemistry Department. Solar cells will be synthesized and tested in the future.

##### **e. Development of Electrolytes for Lithium Batteries:**

Non-aqueous polymer electrolytes in gel, as well as film form, are developed under this area of research for application in lithium batteries. Various techniques are used including acid-based approach, ternary system approach, polymer-in-salt approach, etc. The materials developed are tested for their suitability in lithium batteries using different characterization techniques.

### **Ceramics and Refractories**

Development of ceramics and refractories based on regional materials for a wide range of applications. Current research includes:

- Chemical and mineralogical characterisation of raw materials, compositional studies, synthesis, high-

temperature solid-state reactions.

- Physical and mechanical testing, x-ray and electron microscopy. Analyses, micro-structure/ property relationships.

### **Medical Physics and Bioengineering**

- Recordings of mass potentials as well as signals from neurons to determine the manner in which the brain interacts with its neural network functions. EEG studies.
- Blood flow studies for photoplethysmography.
- Magnetocardiography using superconducting quantum interference device (SQUID).
- Objective assessment of the scoliotic spine.
- Anthropometrics and ergonomics.
- Assessment of human movement, fitness testing.
- Radiation biology and Medicine
- Low doses and Non-Targeted effects of ionizing radiation

### **Astronomy**

#### **a. Theoretical Astronomy**

The area of focus in theoretical astronomy is with statistical analyses on the large- scale structure of the Universe, as well as quasars.

#### **b. Observational Astronomy**

Observational astronomy offers opportunities to study variable stars and other objects such as quasars and BL lac objects. This is done with the 16" L X 200 Meade Telescope equipped with CCD camera.

#### **c. Astrobiology**

Mud volcanoes and the pitch lake are studied as analog sites for Mars and Titan respectively as conditions for extremophiles.

### **Solar Energy Studies**

The design, construction and testing of low and high temperature flat plate collectors for use with

- Solar crop dryers.
- Solar air conditioners, refrigerators and solar powered heat engines.
- Solar timber dryers.
- Solar water decontamination methods for rural areas
- Solar distillation
- Materials for photovoltaics

*This area of research may be done as a joint effort with other departments.*

### **Geothermal Energy Studies**

- Geophysical surveys – Resistivity and Seismic
- Methods of identification of fractured reservoirs
- Geothermal Heat Pumps

The MPhil and PhD programmes are essentially research degrees, but six (6) credits for MPhil and nine (9) credits for PhD of MSc level taught courses are required. Students with a BSc degree normally register for an

MPhil programme and may, if progress is satisfactory, be considered for upgrade to the PhD level after about two years. Students may select the topic for their project from one of the research areas of interest in the Department. These include materials science, medical physics, environmental physics, solar energy, quantum optics, astronomy, acoustics and electronics.

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# Change the Game.



**X** David Anyanwu imagines a world where new approaches to trade and competition can change the game for Small and Medium Enterprises (SMEs) in developing countries – particularly those that manufacture and export food items. The playing field isn't level, but he believes that a new focus away from price competitiveness to quality improvements, just may be what is needed for countries like Trinidad & Tobago to overcome the hurdles thrown up by the international system and to create a space for small business operators from the developing world.

**DAVID ANYANWU**  
*MPhil International Relations*



# FACULTY OF SOCIAL SCIENCES

[sta.uwi.edu/fss](http://sta.uwi.edu/fss)

## MESSAGE FROM THE DEAN



It is with much pleasure that I welcome you to the Faculty of Social Sciences. This is a Faculty that has had a long tradition in the provision of graduate training and research dating back to 1948 when the Institute of Social and Economic Research (ISER) was founded. Since then however, in response to

the dynamic environment in which we operate, we have expanded our graduate offerings considerably. Currently we offer graduate programmes leading to Postgraduate Diplomas, Masters, M.Phil. and Ph.D. degrees in all of our Departments and Centres. The Faculty therefore provides tremendous opportunity for career advancement through its taught programmes, and for extending the frontier of knowledge through its research degrees.

To help you navigate your way through your graduate studies, this Handbook was prepared. It contains a wealth of information on the various postgraduate programmes offered by the Faculty. You will also find information on the pertinent rules and regulations governing postgraduate studies on the St. Augustine Campus and in the Faculty. It also contains information such as programme delivery modalities, elective course offerings and time frames for completion. In short, it will provide answers to the many questions frequently asked by postgraduate students, and I therefore urge you to devote some time to carefully peruse its contents.

Many persons devoted considerable time and effort to the preparation of this Handbook and I wish to thank them. Special thanks to Dr. Hamid Ghany, outgoing Dean of the Faculty. I also wish to acknowledge the tremendous contribution of the staff of the Faculty Office and the Secretariat Staff of the Departments of Behavioural Sciences, Economics and Management Studies. Thanks also to the Staff of the Campus Marketing and Communications Office.

Best wishes to you with your studies.

**MR. ERROL SIMMS**

*Dean, Faculty of Social Sciences*

## ABOUT THE FACULTY

In the last few years there have been a number of improvements in the infrastructure of the Faculty, which include expanded computer laboratories and larger, air-conditioned classrooms.

The Faculty of Social Sciences prides itself on the structure of its postgraduate programme as evidenced by the accomplishments of the faculty and students. The programme is dynamically structured, in that the curriculum is designed in a responsive and flexible manner not only to prepare graduates for careers in their area of specialisation, but to prepare creative thinkers with strong communication and negotiation skills.

Graduates of the Faculty of Social Sciences are usually in high demand throughout the Caribbean region. The training you receive as a postgraduate student is rigorous and challenging. You receive the right mixture of practical and theoretical instruction in all of the degree options.

### Departments

- Economics
- Management Studies
- Behavioural Sciences

### Research Units, Centres & Institutes

- Caribbean Centre for Money & Finance - CCMF
- HEU, Centre for Health Economics - HEU

### Institutes

- Institute of Gender and Development Studies - IGDS
- Institute of International Relations - IIR
- Sir Arthur Lewis Institute for Social and Economic Studies - SALISES

### Units

- Constitutional Affairs and Parliamentary Studies Unit - CAPSU
- Criminology Unit - CU
- Governance Unit - GU
- Labour Market and Poverty Studies Unit - LMPSU
- Psychological Research Centre - PRC
- Disability Studies Unit - DSU
- Sustainable Economic Development Unit - SEDU
- Trade and Economic Development Unit - TEDU
- Unit for Social Problem Analysis and Policy - USPAP

### Publications

- Caribbean Review of Gender Studies - [sta.uwi.edu/crgs](http://sta.uwi.edu/crgs)

- IIR Today - [sta.uwi.edu/iir](http://sta.uwi.edu/iir)
- Journal of Business, Finance and Economics in Emerging Economies - [www.ccmf-uwi.org](http://www.ccmf-uwi.org)
- Journal of the Department of Behavioural Studies - [journals.sta.uwi.edu/jbs](http://journals.sta.uwi.edu/jbs)

### General Admission Requirements

Candidates seeking entry to the Diploma, MSc and MPhil programmes in the Faculty should hold a Bachelor's degree (Second Class Honours or above) in the area in which they wish to pursue the programme e.g. Management Studies, Economics etc (or an equivalent qualification from an approved university)

Candidates seeking entry into the PhD programmes should hold a Master's degree from an approved university with a speciality in the area of study they wish to pursue in the programme. The Master's degree should have involved a substantial thesis. All other candidates are required to register for the MPhil degrees and then transfer or upgrade to PhD level.

In some cases students may be required to attend an interview prior to being accepted. In exceptional cases, students may be admitted with a Pass degree or based on their work experience. Students applying for MPhil and/or PhD degrees must prepare an appropriate research proposal for consideration. The availability of MPhil and PhD places depends on the availability of the appropriate supervisor in the proposed subject area. Further information on this and other requirements can be obtained from the Dean's Office or respective Departments.

## PROGRAMME INFORMATION

### DEPARTMENT OF BEHAVIOURAL SCIENCES

The Department of Behavioural Sciences is one of the three (3) departments comprising the Faculty of Social Sciences. The Department offers postgraduate programmes in the areas of Criminology & Criminal Justice, Applied Psychology, Sociology, Government, Social Work and Mediation Studies. The research agenda of the Department is varied, with a focus on issues of poverty, migration and health, delinquency among youths, domestic violence, national elections, constitutional issues, civil commitment and social cohesion, jury selection, public policy, the economics of crime, fear of crime and crime prevention, Public agency reform, affirmative action and governance.

### MEDIATION STUDIES

#### *Postgraduate Diploma in Mediation Studies*

The programme comprises eight (8) taught courses and continues over two consecutive semesters (Semester I and Semester II). Students will develop skills in the areas of Basic Mediation, Restorative Justice, the Criminal Justice System and Specialised Training in Family Mediation and Victim – Offender Mediation. Intensive courses will generally

extend over a period of three weeks, with classes on three weekday evenings and Saturday mornings. Non - Intensive courses will take place weekly on one evening per week throughout the semester.

### Entry Requirements

Applicants for the programme must satisfy the general University Regulations governing admission to a higher degree from an approved university with at least Lower Second Class honours, or substantial experience or other qualifications of special relevance to the course programme. Preference will be given, in the first instance, to applicants with work experience in the field of mediation. Competence in Social Work, Law, Business, Politics, Probation, Corrections, Psychology, Human Resource Management and Communication would be a distinct advantage.

#### *MSc in Mediation Studies*

The MSc Mediation Studies programme aims at enhancing the rigorous standards, training and certification in mediation offered by the Postgraduate Diploma in Mediation Studies.

### Entry Requirements

Applicants for the programme must satisfy the general University Regulations governing admission to a higher degree from an approved university with at least Lower Second Class honours, or substantial experience or other qualifications of special relevance to the course programme. Preference will be given, in the first instance, to applicants with work experience in the field of mediation. Competence in Social Work, Law, Business, Politics, Probation, Corrections, Psychology, Human Resource Management and Communication would be a distinct advantage.

### SOCIAL WORK

#### *Master of Social Work (MSW)*

Candidates for the Master's degree in Social Work will be required to follow the prescribed course of study for not fewer than one and a half calendar years of full-time study, or two and a half calendar years of part-time study. Students will be required to pursue seven (7) taught courses, one (non-Assessed course in Critical Thinking and Practice for Social Work and one fieldwork course - Advanced Practicum (eight courses in total), and complete a Research Project. On admission to the programme, students will be required to select a concentration from among any of the following - Advanced Social Work Interventions, Social Work Management and Administration, or HIV/AIDS Prevention, Management and Treatment - and will pursue courses related to their area of concentration. The student's research project will be carried out on a specific topic within his/her area of concentration.

## Entry Requirements

Candidates seeking entry to the Master of Social Work programme should hold a Bachelor's degree (Second Class Honours or above) in Social Work. Candidates with a Bachelor's degree (Second Class Honours or above) in a related discipline will be considered for entry but will normally be expected to successfully complete qualifying courses as a condition of acceptance. Candidates should also preferably have 3 or more years of work experience within social work or related professions. Applicants may be required to attend an interview prior to being accepted.

## GOVERNMENT

### *MSc in Government*

The MSc Government programme was restructured in the 2008/2009 academic year. Students will be required to pursue eight 3-credit courses, one (1) four credit course (GOVT 6002 - Methods of Political Research), and complete an eight (8) credit Research Project in order that the degree is awarded. Full-time students are expected to complete the programme in three (3) semesters, whilst the part-time students are expected to complete the programme in five (5) semesters. The programme consists of seminars and presentations, combining individual research with in-depth analysis of the contemporary literature.

## Entry Requirements

Candidates seeking entry to the MSc and MPhil programmes should hold a Bachelor's degree (Second Class Honours or above) in the area which they wish to pursue. Candidates seeking entry into the PhD programmes should hold a Master's degree from an approved University with a specialty in the area of study. Students may be required to attend an interview prior to being accepted. Students applying for MPhil or PhD degrees must prepare an appropriate research proposal for consideration.

### *MPhil / PHD in Government*

## Entry Requirements

The MPhil programme requires applicants to have a good Honours degree, with emphasis on their proposed research area. The courses outlined in the MSc programme are normally required for entry into the MPhil programme. However, the department will decide on the eligibility and acceptance of candidates. (Students may be required to pursue three taught graduate level courses.) The PhD programme requires that candidates have a good graduate research record with supporting courses. Students applying for MPhil or PhD degrees must prepare an appropriate research proposal for consideration.

## SOCIOLOGY

### *MSc Degree in Sociology*

The MSc Sociology programme was restructured in the 2005/2006 academic year. Students are required to read ten 3-credit courses. Students must also complete a 6-credit research project to be awarded the degree. The Reading Course will be within the student's area of specialisation and will comprise literature, theory and research pertinent to the research project and provided by the lecturer. Full-time students are expected to complete the programme in three (3) semesters, whilst part-time students are expected the programme in five (5) semesters.

Areas of Specialisation (linked to the Reading Course):

- Anthropology
- Criminology
- Industrial Sociology
- Political Sociology
- Rural Sociology
- Social Psychology
- Sociology of Development
- Sociology of Education
- Sociology of Health

Candidates may proceed to the Research Project only after successful completion of all five courses and the reading course.

## Research Project

This project will be based on an approved topic within the student's area of specialisation. Normally, the lecturer in charge of teaching the reading course in the student's area of specialisation will also serve as supervisor for this project. Candidates may proceed to the research project after successful completion of the eight compulsory courses and the year-long reading course.

## Entry Requirements

Candidates seeking entry to the MSc programme should hold a Bachelor's degree (Second Class Honours or above) in the area they wish to pursue. Students may be required to attend an interview prior to being accepted.

### *MPhil / PhD in Sociology*

## Entry Requirements

Entry into the MPhil programme requires that candidates have a good Honours degree, with some emphasis in their proposed research areas. (Students may be required to pursue at least three taught graduate level courses, one of which must be SOCI 6003 – Advanced Research Design and Statistics in Sociology. The PhD programme requires that candidates have a good graduate research record with supporting courses.

## PSYCHOLOGY UNIT - THE ANSA MCAL PSYCHOLOGICAL RESEARCH CENTRE

The Centre was established in 1989 to provide laboratory and other facilities for research in Psychology. One of the major objectives of the Centre is to promote and develop the discipline of Psychology at the St. Augustine Campus and the wider national community, as well as provide a physical point of contact for local and international scholars and researchers to communicate with The University on matters of psychological interest.

Research interests include consumer behaviour, media analysis, educational attainment, business entrepreneurship, and crime and justice.

### *MPhil and PhD Degree in Applied Psychology*

Entry into the MPhil programme requires that candidates have at least an upper second class honours degree in Psychology. In addition, applicants are required to have broad training in research methods and statistics at the undergraduate or graduate level. Applicants without a degree in Psychology may apply for entry and if accepted would be required to do qualifying year. Further suitable applicants will be interviewed by members of the Psychology Unit before final selection is made.

In fulfillment of the MPhil degree, candidates are required to:

- a. Successfully complete the seminar in their area of specialization and the advance Statistics and Research Methods course
- b. Successfully defend their MPhil thesis

Issue areas for the MPhil/PhD Applied Psychology programme for which supervision can be provided:

- Sexual abuse among adolescents
- Conduct disorder among children and adolescents
- Aggression among children and adolescents
- Alcohol use among adolescents and adults
- Posttraumatic stress
- Depression among children and adolescents
- Traumatic experiences
- Social psychology of fear of crime
- Media depictions of reality
- Stigmatization
- Adult development,
- Aging,
- Autobiographical memory,
- Relationships,
- Identity,
- Psychological wellbeing.
- Evaluative conditioning (classical conditioning of affect)
- Cognitive, attentional and informational biases in eating behaviour and appearance.
- Argument mapping (visual thinking technique for teaching & deliberation).

## Entry Requirements

Entry into the PhD programme requires that candidates have an MPhil in Psychology or an MSc in Psychology (with at least a B+ average and a concentration in Social Psychology and/or Developmental Psychology) and have undertaken significant research work at the graduate level. Suitable applicants would undergo an interview initially by the members of the Psychology Unit before final selection is made. Candidates who are registered in the MPhil Programme in Psychology may seek an upgrade to PhD registration.

## CRIMINOLOGY UNIT

The Criminology Unit is located within the Department of Behavioural Sciences at The University of the West Indies, St. Augustine campus, and functions in collaboration with the School of Criminology and Criminal Justice, Florida State University. Joint research activities between the two universities focus on such areas as – the role and effectiveness of judicial institutions and their related agencies; the implications and effectiveness of certain social legislation and crime prevention; alternatives to formal litigation; media reporting and crime; and co-ordination among crime detection agencies in the Caribbean. The Unit also provides an administrative site for the UWI-based Working Group in Caribbean Criminology which consists of a team of regional and international professionals in criminology and criminal justice.

### *MSc, MPhil and PhD in Criminology and Criminal Justice*

This graduate programme is designed for persons currently in or desirous of pursuing a career in such professional areas as the protective services (eg. police, prisons, defence force, fire services), social welfare, counselling, teaching, research, judicial administration, mediation and rehabilitation. The programme will also strengthen the executive decision-making skills of students such that they can also function as professional managers and policy makers.

### *MSc in Criminology and Criminal Justice*

Course requirements are 36 credits: that is eight (8) semester courses, a research paper and a research project. For award of the degree, students are expected to gain at least a B in each of these requirements (i.e., courses, research paper and project).

### *Registration Options*

**Full-time Study:** One year (September 1 - August 31; that is two consecutive semesters and the mid-year period (May 1 - August 31) = twelve consecutive months.

**Part-time study:** Two years, with research project period adjusted accordingly. That is, two consecutive semesters in Year One, then two consecutive semesters in Year two, and the mid-year period in the Second year.



## Entry Requirements

A good undergraduate degree in the social sciences, preferably at least an upper second class honours in sociology, psychology, social work or in any discipline considered relevant. Depending on their class of degree and/or level of relevant experience, applicants may be required to complete some qualifying courses in the department.

### *MPhil in Criminology and Criminal Justice*

Degree requirements: Six (6) course credits, two (2) seminar presentations, and a thesis.

## Entry Requirements

Candidates should possess at least an upper second class honours degree in sociology, psychology, social work or in any discipline considered relevant. Relevant experience or some proof of research competence will be favourably considered alongside the undergraduate degree. Depending on their class of degree and/or relevant experience, applicants may be required to complete some qualifying courses.

### *PhD in Criminology and Criminal Justice*

Degree requirements: nine (9) course credits, three (3) seminar presentations, and a thesis.

## Entry Requirements

Acceptance to the Doctor of Philosophy (PhD) degree will be according to the following University regulations:

- Persons holding approved graduate degrees awarded primarily for research;
- Persons holding a taught Master's degree from the UWI or another approved University, provided that the Master's programme included a research component of at least 25% of the total credit rating and the applicant achieved at least a B+ average of its equivalent;
- Persons registered in MPhil degree programmes of The UWI who have met the requirements for upgrading of their registration; as stipulated by the Board for Graduate Studies and Research;
- Persons possessing such other qualifications and experience as the Board for Graduate Studies and Research may approve.

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## DEPARTMENT OF ECONOMICS

The Department of Economics offers postgraduate programmes ranging from the Master's in Economics to the MPhil and PhD Degrees in Economics. The Department has a number of research clusters: the Sustainable Economic Development Unit (SEDU), the Labour Market and Poverty Studies Unit (LMPSU), Economic Measurement Unit (ESU), and the Trade and Economic Development Unit (TEDU). The former Health Economic Unit (HEU), now the Centre for Health Economics, retains close research links with the Department.

### *MSc in Economics and Financial Economics*

The Master's in Economics programme offers participants the opportunity to do advanced study and research in a particular area of specialisation while at the same time providing the technical, theoretical and quantitative tools, needed for solving economic problems arising in the Caribbean or any developing country environment. In much of the programme, emphasis is on applied work aimed at the understanding and solution of socially relevant issues.

The course of study extends over one calendar year, full-time, and two calendar years part-time. The degree requires the completion of six core taught (6) courses, two (2) electives, and a research project/internship.

## Research Project

This project will be based on an approved topic within the student's area of specialisation. Normally, the lecturer in charge of teaching the specialized reading course will also serve as supervisor for this project. Candidates may only proceed to the research project after successful completion of the six (6) core taught courses and two (2) electives.

## Internship

An internship can be accessed as an alternate to doing the Research Project upon the approval of the Coordinator for Graduate Affairs. The internship comprises of a two - three month attachment at a regional central bank or agency where interns will work jointly on research projects with senior staff to develop consistent macro economic projections as well as guidance on policy briefs. Students who access this facility will also be required to write a report which will be marked by the senior member of staff with whom they have been attached and a lecturer from the Department of Economics.

Candidates who fail any course more than once will usually be required to withdraw from the programme.

## Entry Requirements

Candidates seeking entry to the MSc programme in Economics should hold a Bachelor's degree (Second Class Honours or above) in the Social Sciences and should possess a basic working knowledge of Economics.

### ***MPhil and PhD Degrees in Economics***

The essential difference between the Master and MPhil/Doctoral levels, aside from the length of the registration period, lies in the quality of a successful thesis, which must be judged to be the result of original research, to be an addition to knowledge and to be worthy of publication either in full or in an abridged form in a refereed journal.

The maximum period for registration for full time MPhil and PhD students are three (3) years and five (5) years respectively and part time students maximum registration is five (5) years and seven (7) years respectively.

PhD students are required to read for courses totalling a minimum of nine (9) credits and courses must be of the graduate level. The intention of these taught courses is to provide students with research techniques and skills that will not only help them to complete their current research topic, but will also stand them in good stead for life after University.

### **Entry Requirements**

Entry into the MPhil Degree at UWI requires that candidates have a good Honours degree, with a clear idea of the proposed research area. The Department also requires candidates to have training in Economics up to the MSc (Econ.) level or equivalent. The PhD programme is open to candidates who have an approved graduate degree awarded primarily for research. Students applying for MPhil/PhD degrees must prepare an appropriate research proposal for consideration in the area in which they wish to pursue.

#### **Dr Roger Hosein (Coordinator, Post Graduate Affairs)**

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## **DEPARTMENT OF MANAGEMENT STUDIES**

The Department of Management Studies offers postgraduate programmes leading to Postgraduate Diplomas in Sports Management and Tourism Development and Management. Taught Master's are offered in Management Studies, Aviation Management, Tourism Development and Management and Sports Management. The most recent addition is the PhD Business Administration.

### ***Postgraduate Diploma in Sports Management***

The UWI/FIFA/CIES Postgraduate Diploma in Sport Management gives students an understanding of the management, marketing and policy development challenges faced when delivering sports services within today's complex, demanding and globalized environment. Students

are exposed to the local and regional realities of sport, and get the requisite educational background necessary for executive management and leadership positions in a variety of sport and recreational fields throughout the Caribbean.

The Postgraduate Diploma is offered on both a full-time and part-time basis. Initially, the courses will be offered on a face-to-face basis. However, in due course, the programmes will be delivered both face-to-face as well as by distance mode to facilitate participation of persons in the wider Caribbean who are unable to attend on a full-time basis.

### **Entry Requirements**

Admission to the programme will be permitted to persons who:

- Either possess a degree from The University of the West Indies or any other acceptable university and who demonstrate an interest in sports management;
- Or who do not hold a formal university degree but possess a record of active and extensive professional experience in the management and administration of sports supported by portfolio evidence.
- And are successful at an interview to be conducted by a panel approved by the Campus Principal and CIES.

### ***Additional Requirements/Information***

Students who have successfully completed the Postgraduate Diploma with a B average can:

- continue right away to complete the MSc in Sports Management. Such students will be required to complete 19 additional credits for the award of the MSc
- choose to be awarded the Postgraduate Diploma and return to complete the MSc within two (2) years. Such students will be required to complete a further 25 credits for the award of the MSc.

### ***The Postgraduate Diploma in Tourism Development and Management***

This programme aims to develop the skills set of tourism stakeholders who are directly involved with the region's tourism product and are largely responsible for managing the visitor experience. The Postgraduate Diploma is a 24-credit programme that is offered either on a full-time or on a part-time basis. The course of study consists of five (5) compulsory courses and three (3) electives.

### **Entry Requirements:**

Admission to the programme will be open to persons who: Either

- Hold certificates/diplomas that can be assessed by the University of the West Indies
- Have at least five (5) years managerial experience in the hospitality and tourism industry and,
- Are successful at an interview to be conducted by a Selected Panel to be determined by the Campus Committee on Graduate Studies, Or
- Hold a BSc in Hospitality and Tourism or other

Bachelor's degree from a University or College acceptable to the UWI. Such applicants should possess at least a Lower Second Class Honours degree.

*Additional Requirements/Information:*

- Students will be required to satisfy the Department as to their reading proficiency in a foreign language to be specified by the Department. This is not for credit.
- All students will be required to participate in a Tourism Developmental Workshop to be conducted in Trimester 3 as a departmental requirement.
- Students who have successfully completed the PG Diploma with a B+ average can return to do an additional 18 credits to satisfy the MSc requirements provided such courses were completed not more than five (5) years prior.
- Students who completed the PG Diploma with a B+ average more than five (5) years prior would not be automatically admitted but will be considered on a case by case basis.
- It is expected that students so admitted should complete the additional 18 credits in one (1) academic year.

### **The MSc Management Studies**

The MSc Management Studies emphasises the application of research methodology and analytical skills to the management challenges confronting Caribbean business and has been structured on the basis of best practices observed at peer institutions in other countries. The programme allows for specialisation in Marketing, Human Resource Management, Management Information Systems, Accounting and Finance. The course of study for the MSc Management Studies will extend over three (3) semesters of full-time study. The first two semesters will be spent on coursework while the third semester will be devoted to the preparation of a research project which is externally examined.

#### **Entry Requirements**

Applicants should normally possess at least a Second Class Honours degree in one of the following:

- BSc in Accounting or equivalent for applicants wishing to specialise in Accounting or Finance
- BSc in Management Studies or its equivalent for applicants wishing to specialise in any other field of Management

*Additional Requirements/Information:*

MSc students are required to satisfy the Department as to their reading proficiency in a foreign language to be specified by the Department.

### **The MSc Aviation Management**

The Master of Science in Aviation Management has been developed in response to industry need and is designed to emphasise the application of modern management

concepts, methods and tools to the challenges of the aviation industry and business in general. The curriculum is designed to provide graduates capable of discharging the senior management responsibilities of this dynamic and rapidly changing industry.

#### **Entry Requirements**

*Degreed Applicants:*

- A Bachelor's degree or equivalent from a university or college acceptable to the UWI. Such applicants should possess at least a Lower Second Class honours degree; and,
- At least three (3) years working experience, preferably in the aviation industry.

*Non-Degreed Applicants:*

- Hold technical certificates/diplomas approved by the respective regional Airports Authorities and other regional regulatory Air Transportation Bodies for supervisory/managerial appointments;
- Have at least five (5) years managerial experience in the aviation industry; and,
- Are successful at an interview to be conducted by a Selected Panel to be determined by the Campus Committee on Graduate Studies.

Admission under this category shall not normally comprise more than twenty-five percent (25%) of any given cohort.

### **The MSc in Sports Management**

This programme aims to prepare participants to succeed in executive management and leadership positions within a variety of sport and recreational fields. The role of scholarship and focused disciplinary study will also be emphasized so as to prepare graduates to think conceptually and analytically and to positively impact professional practices and policies in the respective fields of sports and recreations.

The MSc will normally be a 43-credit programme. However, for persons to whom the Postgraduate Diploma was awarded and who choose to take a break from their study and re-enter within two years of the completion of the Postgraduate Diploma, the programme will be a 49-credit one.

#### **Entry Requirements**

- A Bachelor of Science degree in sports Management or its equivalent from the University of the West Indies or any other University acceptable to the UWI with at least a Lower Second Class honours; or
- The UWI/FIFA/CIES postgraduate Diploma in Sports Management with a B average or higher; or
- At least two years postgraduate working experience in the field of sports administration and management; and
- Successful interview to be conducted by a panel approved by the Campus Principal.

### **The MSc Tourism Development and Management**

This programme is designed to develop the analytical skills of policy makers and planners who are charged with the responsibility of planning, developing and managing the region's tourism resources in a sustainable manner. The intention is also to develop a critical mass of intellectual capital within the region that will help lead the way forward in developing innovative solutions, through research and scholarship, to address the many challenges facing the tourism industry.

The programme may be pursued on either a part-time basis over two academic years or on a full-time basis over one calendar year.

### **Entry Requirements**

Applicants under this category should possess:

- A BSc in Hospitality and Tourism or other Bachelor's degree from a University or College acceptable to the UWI. Such applicants should possess at least a Lower Second Class Honours degree.
- Preference will be given to persons with substantial experience at the management level in the Hospitality and Tourism sector.

#### *Additional requirements/information:*

- All students will be required to satisfy the Department as to their reading proficiency in a foreign language to be specified by the Department.
- All students will be required to participate in a Tourism Developmental Workshop to be conducted in Trimester 3 as a departmental requirement.
- A student who fails to complete the MSc will not be automatically awarded the PG Diploma. Such a student would have to successfully complete the eight (8) courses required for the PG Diploma. Also, the student must make a request in writing to the School for Graduate Studies and Research through the Head of the Department of Management Studies to withdraw from the completion of the research project explaining the reasons for his/her inability to complete the MSc. The final decision rests with the School for Graduate Studies and Research. Each case is examined on its own merit.

### **PhD Business Administration**

The purpose of the PhD programme is to develop leaders, innovators, and positive change agents able to work as researchers, teachers, consultants and administrators in a variety of settings including public and private commercial organisation, Not-for-profit agencies and academia (colleges/universities). Rigorous research training is offered to enable graduates to plan, design, implement and evaluate research.

The curriculum is crafted with several specific objectives in mind including providing graduates with an appreciation for the broad range of issues – economic,

social, institutional, normative, and political – that surround contemporary business administration.

### **Entry Requirements**

Preference will be given to applicants from Caribbean countries. Approximately ten students in total will be admitted each year across the available disciplinary areas. Admission to the programme will be based on one of the two alternative sets of criteria listed below.

#### *Applicants holding a MSc in Management*

Applicants holding an MSc in Management Studies from UWI, or a MSc from another accredited University, where the research component is at least 25% of the degree content, and who have attained at least a B+ average, will be eligible for direct admission.

#### *Applicants with Other Academic Backgrounds*

Such applicants must hold at least a master's degree from UWI or another accredited University with a B+ average and with an acceptable level of research content in the programme pursued.

Depending on their background, such applicants may be required to take additional courses as determined by the Department Head on the recommendation of the Admissions Committee, prior to registration.

#### **Professor Surendra Arjoon**

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## **THE ARTHUR LOK JACK GRADUATE SCHOOL OF BUSINESS**

The purpose of the Arthur Lok Jack Graduate School of Business is to educate extraordinary Innovative leaders who positively reshape business and society, while constantly challenging the status quo of human development. The school was developed in response to the specific needs of both The University of the West Indies and the Caribbean business community. The University identified a need to create and provide a meaningful outreach programme for management education and management support services in the region. Simultaneously, the Caribbean business community recognised the need for managers to have the technical, administrative and organisational skills and knowledge that are required to compete successfully in today's internationally competitive business environment. In addition, an institution that could provide high quality

consultancy services indigenous to the region, to support industry, in the age of globalisation, was needed.

**Professor Miguel Carillo (Executive Director)**

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Website: [www.gsb.tt](http://www.gsb.tt)

## CARIBBEAN CENTRE FOR MONEY AND FINANCE (CCMF)

[ccmfuwi.org](http://ccmfuwi.org)

The CCMF provides credible forums for interaction between practitioners and scholars, while it continues to add to its own voluminous literature on monetary and financial matters. Besides their own research the staff (academic and non-academic) has provided valiant assistance in the publication of our new journal and in the organizing of the Centre's annual trademark Senior Level Policy Seminar and Annual Monetary Studies Conference which have gained a high reputation in the region.

The crisis of the international financial system highlights the timeliness of the centre's broader focus on financial sector issues, in addition to economic policy issues. The CCMF is actively seeking to engage in a major regional collaborative project on financial risk analysis in the context of growing financial linkages within the Caribbean, in collaboration with CARTAC (Caribbean Regional Technical Assistance Centre) and other regional institutions. The difficulty of accessing data for regional comparisons is a matter of long standing concern. A CCMF project for establishing a database for such comparisons has been revised to take advantage of regional synergies and to identify information gaps that need to be filled. A third collaborative project for which funding is being sought addresses price formation and trends in inflation, also a matter of urgent concern to the region.

In addition, the Centre:

- Undertakes economic conferences:
- The Caribbean Business Executive Seminar pulls together senior policy makers from the private and public sectors around seminal policy issues bearing on Caribbean economies and finance
- The Annual Monetary Conference held annually in November, constitutes the major conclave of economists within the region

- Provides a range of services which include regional data, access to the electronic journal, conference papers, links to reports on the Caribbean economy and more, via its website at [ccmfuwi.org](http://ccmfuwi.org)
- Publishes a monthly newsletter which features lead articles on topical issues, provides regional economic news updates, as well as conference and other Centre announcements.
- Produces, based on the proceeds of the economic conferences, the Journal of Business, Finance and Economic in Emerging Economics, which is a collaborative effort between the CCMF, the departments of Economics and Management and SALISES
- Assists on demand, specific training within Central Banks within the region
- Supervises graduate students where appropriate, enrolled at the UWI
- Supervises, Summer interns

**Dr. Derick Boyd (Executive Director)**

Ms. K. Charles (Administrative Officer)  
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[derick.boyd@sta.uwi.edu](mailto:derick.boyd@sta.uwi.edu)

## CENTRE FOR HEALTH ECONOMICS (HEU)

[sta.uwi.edu/fss/heu](http://sta.uwi.edu/fss/heu)

The timing of the establishment of the Health Economics Unit (HEU) in 1995 coincided with the growing movement towards health sector reform in the English-speaking Caribbean. The HEU conducts research in a number of areas that directly inform policy formulation and implementation and that will ultimately strengthen the efforts of the governments and other active agencies of the region in bringing better health care within the reach of all citizens. The Centre also substantially contributes to many public service activities and hosts or co-hosts numerous seminars and conferences.

### *MPhil / PhD Programmes in Health Economics*

The HEU, Centre for Health Economics conducts research, teaching and training in three main areas:

- Health - National Health Insurance, Health Sector Reform, HIV/AIDS, Costing, Equity, Health and Poverty, and Health and Development
- Social Security – Pension, Investments, National Health Insurance,
- Economic Planning - Fiscal Policy

Candidates seeking full-time registration status for the MPhil will be allowed not less than two (2) years and



not more than three (3) years from initial registration to submit their theses for examination. Registered part-time candidates for the MPhil degree are required to submit their theses within five (5) years of their initial registration.

Full-time candidates for the PhD degree will be allowed a minimum period of registration of three (3) years and not more than five (5) years from their initial registration to submit their theses for examination. Part-time PhD candidates will be allowed a maximum registration period of seven (7) years to submit their theses for examination.

## Entry Requirements

### *MPhil in Health Economics*

Candidates seeking admission to the MPhil programme should hold a Bachelor's degree (Upper Second Class Honours or above) or its equivalent, unless the Campus Committee in any particular case otherwise decides.

Candidates who are registered for a taught Master's degree may apply after a period of one Semester for transfer of registration to the MPhil programme if, in the opinion of the Director of the HEU, the candidates have shown evidence of having the qualifications necessary for writing the thesis for the MPhil

### *PhD in Health Economics*

Candidates seeking admission to the PhD programme should hold a Master's degree or equivalent from an approved University with a specialty in the area of study.

Candidates who are registered in the MPhil degree programme and have met the requirements for upgrading may register for the PhD programme as specified by the BGSR.

Applicants to both the MPhil and PhD degree programmes are also required to submit appropriate research proposals in the areas they wish to pursue, which will be considered by the HEU's Selection Committee. Applicants may also be required to attend an interview prior to being accepted. A decision on the eligibility and acceptance of candidates will be made by the HEU's Selection Committee for approval by the BGSR.

## **THE INSTITUTE FOR GENDER AND DEVELOPMENT STUDIES (IGDS)**

[sta.uwi.edu/igds](http://sta.uwi.edu/igds)

The IGDS offers a range of interdisciplinary post graduate programmes which attract a variety of students who bring different areas of expertise and knowledge to the seminars, courses and research projects. The IGDS programme accepts full-time and part-time students, catering to a wide range of participants including activists and persons working in governmental and non-governmental organisations. The graduate programmes at the Institute

are designed to provide an integrated, interdisciplinary programme of gender and development studies across faculties and disciplines at The University of the West Indies.

### *Postgraduate Diploma /MSc in Gender and Development*

The Diploma offers students a more in-depth understanding of a range of modern techniques and an enhanced capacity to address issues of gender and development in a globalizing world. The MSc is a two year degree providing senior professionals with a range of modern techniques for understanding and addressing developmental issues. The programmes are designed to provide students with skills and resources they can use to deepen the academic discourse on Caribbean feminism and contribute to the development of an indigenous body of theory, knowledge and research for the Caribbean, and in this way help improve the quality of life for women and men of the region.

### *MPhil / PhD in Interdisciplinary Gender Studies*

The MPhil and PhD degrees are designed to enhance research and analytical skills in order to produce scholars, policy makers and activists capable of developing a body of gender-based knowledge and research on the Caribbean, provide advisory services, influence policy directions and assist with capacity building in national and global institutions. Candidates may select research topics including but not limited to the following areas:

- Gender, Science and Technology (with a focus on the Environment and Water)
- Gender and Sexuality
- Men and Masculinities
- Gender-based Differentials in Educational Performance
- The Making of Feminisms in the Caribbean
- Gender and Caribbean Iconography
- Women, Gender and Development
- Feminist Theory and Epistemology
- Gender and Caribbean Historiography
- Women, Gender and Caribbean Literature

Students who undertake postgraduate work at IGDS benefit from guidance in their research by competent, well-trained and highly regarded academics. They are given opportunities to establish linkages with national, regional and international institutions concerned with feminist scholarship and gender studies.

## Entry Requirements

Students wishing to enter a graduate programme may need to complete qualifying courses if they do not have a UWI Minor in Gender Studies OR Gender and Development Studies, a relevant complement of courses or other similar qualification from another university.

**Dr. Piya Pangsapa (Head)**

Prof. Patricia Mohammed (Graduate Studies Coordinator)

Ms. Avril Patterson-Pierre (Administrative Assistant)

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Website: <http://sta.uwi.edu/igds>

## INSTITUTE OF INTERNATIONAL RELATIONS (IIR)

[sta.uwi.edu/iir](http://sta.uwi.edu/iir)

The Institute of International Relations (IIR) operates as a regional and autonomous academic institution, affiliated with The University of the West Indies. The mission of the IIR is to produce generalists with multiple marketable skills and experience, related to varied types of employment. With such a mission, the IIR gives students the opportunity to combine their international relations programmes of study with other marketable concerns. The work of the IIR concerns teaching and research, as well as the advanced study of international relations of developing countries, in particular Latin America and the Caribbean. Courses emphasise a multidisciplinary approach to the study of International Relations. The subject areas offered include: International Politics, International Law, International Money and Finance, International Trade and Economic Development, International Relations of the Caribbean, International Relations of Latin America, and the Political Economy of International Development and Organisation.

### *Postgraduate Diploma in International Relations*

The Postgraduate Diploma in International Relations provides a foundation for candidates who may not have had a background in International Relations. It also offers the necessary training for those who desire to undertake further graduate work in International Relations or Global Studies. Graduates of the Institute usually find employment in a wide variety of fields and occupy prominent positions.

### **Entry Requirements**

Admission to the Postgraduate Diploma in International Relations is usually open to candidates who are graduates of an approved university in such fields as Law, Economics, Political Science, Government, Sociology, Public Administration, History, Humanities, Spanish or French, or hold an equivalent qualification acceptable to The University. Candidates may also be required to pass an entrance examination. Full-time candidates are required to follow the prescribed course of study over one academic year, part-time candidates are required to complete the prescribed course of study within two academic years. It includes a Specialised Seminar and a foreign language requirement.

### *MSc in Global Studies*

The MSc in Global Studies is an interdisciplinary programme which provides training in interpreting and analyzing the global political economy and prepares students for a variety of career paths.

### **Entry Requirements**

To be admitted to the MSc programme in Global Studies a candidate must possess either

- BSc in International Relations or in a related discipline with a good Second Class degree.
- A good Second Class degree in any discipline with a minor in International Relations (IR) with a B+ average in the IR courses
- An appropriate first degree in any discipline and the Postgraduate Diploma in International Relations with a B average.

### *MPhil in International Relations*

The course of study for the degree of MPhil may include attendance at lectures and completion of prescribed courses. Candidates are required to make two (2) seminar presentations based on the topic for the thesis and are required to submit their theses for examination within five academic years of initial registration, in the case of full-time study, or within seven academic years, in the case of part-time study. A thesis for the MPhil degree shall either represent an original contribution to the field, or a systematic and substantial exposition of existing knowledge within some significant aspect of the field.

### **Entry Requirements**

Candidates will normally be required to have obtained an honours degree of good standard, preferably in a related field of study, and a Postgraduate Diploma in International Relations or the MSc honours degree in International Relations or Global Studies.. Candidates must also satisfy the Institute of International Relations of their competence to conduct research in the field of International Relations, and within the specific area proposed for the thesis. Candidates will be required to present a detailed and well-structured thesis proposal for consideration by the academic staff of the Institute. Upon the acceptance of the topic and the proposal, the candidate will be assigned a supervisor approved by the Institute.

### *PhD in International Relations*

Candidates for the PhD shall submit their theses within six academic years of registration, in the case of full-time study, or within eight academic years, in the case of part-time study. A PhD dissertation must represent a distinct and significant contribution to the field of international relations, affording evidence of both originality and the application of independent critical thought.

## Entry Requirements

An applicant for registration for the PhD degree in International Relations must have completed an MPhil degree, or must present evidence of acceptable postgraduate training and research at an approved university.

Candidates registered for the MPhil degree may be permitted to transfer registration to the PhD degree upon the recommendation of the supervisor to Graduate Studies & Research, following a successful research presentation to a seminar of academic staff and students.

### **Dr. Anthony P. Gonzales (Professor and Director)**

Mrs. Marilyn. Ramon-Fortuné (Senior Administrative Assistant)

Ms. Jacqueline Roberts (Senior Secretary)

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## SIR ARTHUR LEWIS INSTITUTE OF SOCIAL AND ECONOMIC STUDIES (SALISES)

[sta.uwi.edu/salises](http://sta.uwi.edu/salises)

The Sir Arthur Lewis Institute of Social and Economic Studies falls under the aegis of the Faculty of Social Sciences, and functions as a cross-campus activity, with branches on all three campuses. There is a Director for each of the branches and the overall programme is co-ordinated by a University Director appointed from among the three Directors. Apart from the Directors, other academic staff consists of Fellows and Research Assistants.

While the main focus of the work of the Institute is research, it is also a teaching department and researchers provide technical assistance to regional governments in the field of economic and social policy, and the evaluation of projects undertaken by local, regional and international agencies. There is a Professional Training component to the Institute's programme, which includes a seminar series resulting from research findings, and short courses, ranging from one to four weeks, on various topics in the applied Social Sciences.

The Institute's research programme places emphasis on development issues and more recently on multi-disciplinary studies such as the transfer of technology and the impact of structural adjustment policies on the economy and society. Apart from basic, applied and policy research, the Institute is also involved in carrying out studies on behalf of the public and private sectors in the respective territories, as well as for regional and international agencies. At St. Augustine, the Institute's main focus of research has been on economic modeling, financial markets, poverty, return migration, sport and development and social policy.

### **Professor Patrick Watson (University Director)**

Ms. P. Sampson (Senior Administrative Assistant)

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# APPLICATION INFORMATION

## HOW TO APPLY

### Who is eligible for entry?

To be eligible for consideration for entry to study for a postgraduate degree, candidates must:

- Be graduates of an approved university - in most cases, a Second Class Honours degree in the relevant or an analogous subject area, or an equivalent qualification.
- Satisfy the particular Faculty/Department requirements OR
- Possess some other suitable professional qualifications and experience approved by Senate on the recommendation of the Board for Graduate Studies & Research.

Applicants wishing to register for a PhD degree will be required to register for the MPhil in the first instance if:

- You do not have a Master's degree by research or one which included a research component of at least 25% of the total credit weighting and
- You achieved at least a B+ average or its equivalent.

You may be allowed to upgrade your registration to the PhD level, subject to satisfying certain stated criteria.

### How do I apply to UWI?

Prospective students can apply online at [sta.uwi.edu/postgrad](http://sta.uwi.edu/postgrad). All instructions are available on the web site and on-line applications require no application fees. Supporting documents (birth certificate, university transcript(s) and references) must be submitted to this office before the final closing date. Applications sent without these documents will not be considered.

If you are not a UWI graduate, you must request that your degree-granting institution forward a copy of your transcript to the School for Graduate Studies & Research no later than February 15th of the preceding academic year in which you wish to begin studies. Your application will not be given consideration until your transcript is received.

### When should I send in my application?

Applications should reach The University by January 31st of the academic year in which candidates wish to register. The site is opened for on-line application from November for persons wishing to commence study at the start of the next academic year in September (Semester I). MPhil or PhD applicants wishing to commence study in Semester I (September) or Semester II (January) of the new academic year must submit their on-line applications by April 30 or

September 30 respectively of the preceding academic year in which they wish to begin studies.

### Who reviews my application?

All applications for admission are subject to the recommendation of the Department concerned, and to the approval of the Campus Committee for Graduate Studies & Research or the Board for Graduate Studies and Research as appropriate.

### When will I get a response?

You will be informed of the outcome of your application as soon as a decision is taken. The offer of a place is normally valid only for the particular academic year (September to August). Request for deferral of a place will not usually be entertained.

Non-acceptance of an applicant may result from considerations other than those set out in the entry requirements. These considerations include availability of facilities for the type of research which the applicant wishes to pursue or the availability of faculty personnel to supervise the proposed research.

### Students with Disabilities

Applications from persons with physical disabilities are welcomed. It is The University's policy to consider their applications on the same academic grounds as those of all other applicants. Special facilities like elevators, parking, ramps and bathrooms are available for wheelchair users. It is, however, helpful for The University to know in advance about the degree of disability or handicap so that it may offer advice on what facilities – or special treatment where necessary – may be available.

### Specially Admitted Students

Specially Admitted students are persons who qualify for entry to a graduate programme but who wish to pursue only a particular graduate course or courses. You are eligible for special admission if you fall into one of the following categories:

- You are registered at another university and wish to follow courses at UWI by special arrangement for credits at your own university.
- You are sponsored by your Government or employer to read certain courses, not for credit toward a university qualification, under a special arrangement.
- You are a graduate of The UWI and wish to pursue a particular course or courses to:

- » equip yourself for a particular job;
- » increase your efficiency in the performance of a job;
- » satisfy entry requirements to a programme in this or in another institution;
- » update or improve your knowledge in a subject.

Specially admitted students are permitted to write examinations in the courses for which they have registered and will be charged a per credit fee.

### Occasional Students

If you wish to attend UWI for a period of study not leading to any degree or diploma you may seek admission as an "occasional student." You must be recommended by the Head of Department whose lectures, tutorials and or laboratory classes you wish to attend and you will be charged a per-credit fee. Occasional students may not write examinations in the course(s) for which they are registered.

### Visiting Students

The University welcomes applications from students who wish to access courses without registering for a particular graduate programme, or who wish to conduct specific research in connection with their registration at another institution, or to work with a particular member of this University's academic staff.

If you are interested in undertaking such a programme of study which does not lead to any formal UWI qualification either as a full-time or part-time student, please contact the appropriate department.

### International Students

The University of the West Indies welcomes students from all over the world. If you are interested in any of our postgraduate programmes, please visit our website at [sta.uwi.edu/postgrad](http://sta.uwi.edu/postgrad) or email us at [postgrad@sta.uwi.edu](mailto:postgrad@sta.uwi.edu) for further information.

#### English Language Requirement

Most of The University's tuition and examinations are given in the English language. If your native language is not English, or if you come from a country where English is not the primary language used in education, you must provide evidence that your ability in the various skills of English meets The University's requirements, by including with your application, details of any recognised English Language qualifications and of experience in using English. The most usual qualification is the Test of English as a Foreign Language (TOEFL) which is offered twelve times a year at centres throughout the world. It is recommended that when you apply for entry to The University of the West Indies, you also make arrangements to take the TOEFL and request that your score be sent directly to the School for Graduate Studies & Research. Information on the test and testing centres may be obtained from:

TOEFL/TSE Publications  
PO Box 615, Princeton,  
New Jersey 08541-6154, USA  
Website: TOEFL.org

### Visas

If you are coming to Trinidad & Tobago you must have a valid passport. At present, British Commonwealth citizens entering Trinidad & Tobago do not require visas; neither do nationals of Germany, Turkey, Switzerland, Denmark, Norway, Sweden, Finland, Israel, France, Brazil and Colombia. Visas are required by all other overseas nationals and you must make arrangements in your home country for a student visa.

## TUITION FEES

*PLEASE NOTE: Fees are reviewed annually, and are subject to change. Fees below are as of 2012/2013.*

All students are now required to pay tuition fees by Semester. Registration is not complete until the relevant amount is paid. These costs, which change each academic year, are available on the postgraduate website at [sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf](http://sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf).

### Government Assistance for Tuition Expenses (GATE)

*(Citizens of Trinidad & Tobago only)*

1. Students may apply to the Ministry of Science, Technology and Tertiary Education for grants to cover 50% of their tuition fees.
2. Electronic Birth Certificate must be attached to all GATE forms.
3. Students who were born outside of Trinidad and Tobago must provide proof of citizenship by attaching a copy of student's passport and national identification card showing citizenship of Trinidad and Tobago to the GATE form.
4. Citizens must show evidence to the institution that they have been residing in Trinidad and Tobago for three (3) years prior to completing GATE application form.
5. Students pursuing postgraduate programmes must attach a receipt showing payment of their portion of the tuition fee. The GATE payment to the University will not exceed the amount paid by the students.
6. GATE funding is not retroactive. If a student fails to complete a GATE application form on registration as is required, a claim will not be accepted after the semester has ended.
7. Students who receive GATE funding will be required to serve the country by working in the public or private sector in Trinidad and Tobago upon completion of the approved programme.
8. For more information, on the GATE Programme, visit [www.stte.gov.tt/Programmes/Gate/Benefits.aspx](http://www.stte.gov.tt/Programmes/Gate/Benefits.aspx)



## Tuition Fees (Students from Contributing Countries)

Tuition fees cover tuition and examination costs. Tuition and other University fees are paid annually, or by semester, and before registration. Annual tuition fees for higher degree and advanced diploma programmes payable by all students sponsored by Governments of countries contributing to UWI are listed below and can be accessed at

[sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf](http://sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf)

	Full-Time	Part-Time
Faculty of Engineering	8,585	4,735
Faculty of Food & Agriculture	6,785	3,835
Faculty of Humanities & Education	6,785	3,835
Faculty of Medical Sciences ( <i>Trinidad &amp; Tobago Nationals only</i> )		
Clinical (DM)		30,885
MPhil / PhD/MD	25,885	13,385
Faculty of Science & Technology	6,785	3,835
Faculty of Social Sciences	6,785	3,835

*\*Fees quoted above are inclusive of compulsory registration fees.*

Annual tuition fees for higher degree and advanced diploma programmes payable by students from NON-CAMPUS contributing countries NOT SPONSORED by their Governments are listed below:

	Full-Time \$TTP	Per-Semester \$TT
Faculty of Engineering	25,620	12,810
Faculty of Food & Agriculture	19,640	9,820
Faculty of Humanities & Education	19,640	9,820
Faculty of Science & Technology	19,640	9,820
Faculty of Social Sciences	19,640	9,820

Other Fees payable by ALL students

Guild fees (annual and non-refundable)	\$TT 225
Registration Fee	\$TT 20
Identification Card (first issue only)	\$TT 20
Caution Money (first year only - refundable at graduation)	#TT 500
Personal Accident Insurance (annual)	\$TT 20
Student Group Health Plan	\$TT 100

For students enrolled in research degrees, the following applies:

Examination Fees (MPhil)	\$TT100
Examination Fees (PhD)	\$TT150

For tuition fees payable by students from other countries and those enrolled in self-financing programmes, download the latest fee booklet at [sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf](http://sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf)

## Living Expenses

Students should budget approximately \$TT 30,000 per annum for living expenses - including accommodation, meals and personal expenses. An additional \$TT 4,000 to \$TT6,000 per annum should be budgeted for books. If you are allocated a room in one of The University's Halls of Residence, you must pay the annual cost of this room before taking up residence.

For the most up-to-date information, please download the latest fee booklet at [sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf](http://sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf).

## Tuition and Maintenance Costs (International Students)

Before leaving your home country, you must ensure that you have the necessary funds to meet all University fees, and for your subsistence, throughout your course of study. All University fees are payable in advance of registration. There are no scholarships available for overseas students. Overseas students should note also that there is very little chance of obtaining a work permit for temporary or permanent employment in Trinidad & Tobago.

Tuition fees for higher degree and advanced diploma programmes payable by international students – all students from NON-CONTRIBUTING countries such as the United Kingdom, Guyana, Martinique, Suriname, United States, Canada etc. who are not sponsored, are required to pay the following tuition fees:-

	Full-Time \$US Annual	Full-Time \$US Per Semester
Faculty of Engineering	12,580	6,290
Faculty of Food & Agriculture		
Faculty of Humanities & Education	9,640	4,820
Faculty of Medical Sciences		
Clinical (DM)	12,000	6,000
MPhil / PhD/MD	5,000	2,500
Faculty of Science & Technology	9,640	4,820
Faculty of Social Sciences	9,640	4,820

Note that other compulsory fees detailed on the previous page are payable, in addition to tuition fees, at the beginning of the academic year.

## Tuition Fees (Specially Admitted/Occasional Students)

Per credit fees for specially admitted students, occasional students and students writing examinations ONLY are listed below:

	From Contri- buting Countries TT\$ per credit	From Non- Contributing Countries US\$ per credit
<b>Specially Admitted</b>		
Faculty of Engineering	835	410
Faculty of Food & Agriculture	585	290
Faculty of Humanities & Education	675	335
Faculty of Science & Technology	585	290
Faculty of Social Sciences	675	335
	Occasional & Exams Only Students TT\$ per credit	From Non- Contributing Countries US\$ per credit
<b>Occasional and Students Writing Exams</b>		
Faculty of Engineering	250	205
Faculty of Food & Agriculture	175	145
Faculty of Humanities & Education	200	170
Faculty of Science & Technology	175	145
Faculty of Social Sciences	200	170

### NOTES

- Occasional students are NOT permitted to write examinations.
- Examination only students are permitted to write examinations but are not allowed to attend classes.
- Specially admitted students are allowed to attend classes and write examinations.
- Fees as of July 2012
- Fees are reviewed annually, and are subject to change

For further clarification of fees please contact:

### THE BURSARY

STUDENT ACCOUNTS SECTION

Tel: 1(868) 645-3232/9

Exts: 83370, 83380, 83381, 83382, 82356, 83379

### Fee Deadlines

All students are now required to pay tuition fees by Semester. Registration is not complete until the relevant amount is paid. These costs, which change each academic year, are available on the postgraduate website at [sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf](http://sta.uwi.edu/resources/documents/PostGraduateFeeBklt.pdf).

## SCHOLARSHIPS, GRANTS & STUDENTSHIPS

The University awards several scholarships to full-time postgraduate students per year. The following postgraduate scholarships and bursaries are provided by other donors and are awarded according to specific criteria agreed upon with the donors:

### UWI Postgraduate Scholarship

For students pursuing research degrees on a full-time basis.

### UWI Scholarships

Graduates of the UWI, West Indian graduates of any approved university and international students are eligible for UWI scholarships. These awards are offered annually and are only for full-time students. Awards can be granted for an MPhil degree and two or three years for a PhD. The holder of an award who is a candidate for an MPhil but who is allowed to transfer to the PhD will have his award extended for one additional year. Other scholarships are administered on behalf of donors according to their terms of reference.

Graduates with First and Upper Second Class Honours are eligible but the former are given first priority. As agreed by Senate, priority is given to students pursuing higher degrees through research. Most University awards are funded by the University Grants Committee. The value of the award is presently TT \$60,000 per annum.

### Scholarships for Non-Nationals – Campus Contributing Countries

Non-nationals from Campus Contributing countries i.e. Anguilla, Antigua, Bahamas, Barbados, Belize, British Virgin Islands, Cayman Islands, Dominica, Grenada, Jamaica, Montserrat, St. Kitts/Nevis, St. Lucia and St. Vincent who have been awarded scholarships will be required to send an undertaking from their Government advising that they would meet the economic cost of tuition. In the absence of this, the full economic cost will be met from the Scholarship grant.

Only Trinidadian and Jamaican students who have been awarded scholarships will not be required to pay tuition and examination fees but other compulsory fees will be deducted from the award before quarterly instalments are calculated.

### Scholarships for International Students

International students who have been awarded a scholarship are required to pay tuition, examination fees and other compulsory fees and this sum will be deducted from the award before quarterly instalments are calculated.

### Non-UWI Scholarships

There are several other graduate scholarships available, some of which are administered by the UWI. These are awarded according to the specific criteria developed by the donors. Those currently available are listed below:

### Scholarships available for MSc / MA students

#### *Central Bank of Trinidad & Tobago Scholarship: De La Rue Scholarship*

The scholarship is tenable at the St. Augustine Campus of The University of the West Indies for a maximum period of two (2) academic years. The award will primarily cover the cost of books, materials and tuition with the balance being devoted to subsistence.

To be eligible for the scholarship, applicants must meet the following criteria:-

Be a national of Trinidad and Tobago

Be pursuing full-time postgraduate study in the field of Economics (MSc/MPhil/PhD) (Preference shall be granted to applicants who are pursuing economics with specialisations in monetary economics, financial economics, finance, public finances, international trade, regional integration, energy economics or development economics.)

Have maintained an outstanding academic record (with at least B+ average in coursework)

Be required to participate in an internship programme for a minimum period of two months at the Central Bank.

#### *George Higgins Scholarship*

(1 scholarship)

This scholarship is available to a full-time MSc Petroleum Engineering student. The candidate would be selected by the Department based on performance in the Semester 1 University Examinations. The value of the award is TT\$9,000.00.

#### *GDF SUEZ Bursaries*

Eight (8) Bursaries have been provided by GDF SUEZ to assist in promoting one of the University's primary objectives which involves preparing a distinctive UWI graduate for the 21st century. GDF SUEZ wishes to foster a climate of academic excellence and facilitate student interchange between the Campuses of the University. The sum of each bursary is TT\$15,000.00 and applications are open to only Trinidad and Tobago nationals. Two (2) bursaries would be awarded to each of the following Faculties for students commencing Year I of the following Taught Master's programmes:

Science & Technology

- MSc Computer Science
- Food & Agriculture
  - MSc Crop Science
- Engineering
  - MSc Civil With Environmental Engineering
  - MSc Construction Engineering & Management
- Humanities & Education
  - MA Spanish
  - MA English Language

## Social Sciences

- MSc Government
- MSc Sociology

The selection criteria would be based on

- (the students' class of degree/GPA (3.00 – 3.59 – Upper Second Class Honours or 3.60 and above – First Class Honours) and
- (two (2) referees' reports

Applicants must be a first year postgraduate student commencing Year I of the degree.

## Scholarships available for MPhil/ PhD students

### *UWI Postgraduate Scholarships*

Applicants from all Faculties pursuing MPhil or PhD degrees within the St. Augustine campus can apply for this scholarship. The value of the scholarship is TT\$60,000.00 per annum

### *Elsa Goveia Scholarship*

- Applicants must be graduates of The University of the West Indies, University of Guyana or another Caribbean University.
- Two (2) scholarships to be awarded as follows:
- To persons currently registered full-time for the MPhil or PhD degree in Caribbean History or who have applied for full-time admission to such a programme for the particular academic year.
- For studies leading to the MPhil/PhD degree in the areas of Sociology, Anthropology, Cultural Studies and Gender Studies.
- Scholarships will be tenable at The University of the West Indies, St. Augustine for two (2) years with the possibility of an extension to a third year for PhD candidates only.
- The value of the scholarship is TT\$60,000.00 per annum

### *Eric Williams Memorial Scholarship*

One scholarship for CARICOM nationals who are pursuing full-time studies for an MPhil or PhD degree in Caribbean History, Caribbean Economic Development or Caribbean Politics. The Scholarship will be awarded for two (2) years for the (MPhil) or three (3) years for the (PhD) and subject to satisfactory academic progress. The annual value of the scholarship is TT\$60,000 per annum.

## When to Apply for Scholarships

Applications for scholarships are invited by means of advertisements issued by the Marketing and Communications Office. The calls for applications are circulated via ads in the local newspapers, the intra campus E-News bulletin, the Graduate Studies website, **sta.uwi.edu/postgrad** and social media such as facebook and twitter. It must be noted that not all of the above awards are offered each academic year as the offerings are also

dependent on donor organisations. The notices are posted on campus notice boards, advertised on the local intranet and sent via hard copy to all Departments in May of each year. The deadline for applications each year is June 30.

## Research Grants

Research grants are awarded to Departments/Faculties only for research projects that involve research students and the funding is normally restricted to capital items. In establishing priorities for a research grant, the Campus Committee is guided by the following considerations:

- the urgency of the programme/projects
- the contribution it is likely to make to the Caribbean Region
- the likely effect on the further development of graduate studies
- Manpower needs within and outside of the University

### *Procedure for Grant Applications*

Applications on the prescribed forms are to be submitted to the Senior Assistant Registrar, Office of Graduate Studies and Research, St. Augustine for consideration by the Campus Research and Publication Fund Committee. Applications in the form of a Call for Applications are posted on the Graduate Studies website, **sta.uwi.edu/admissions/awards.asp**, and campus notice boards, advertised on the local intranet and sent via hard copy to all Departments as well as by e-mail to the entire campus community.

### *Deadline Dates for Grant Applications*

This is typically three weeks before each meeting. In addition, the Campus Research and Publication Fund Committee requires a report on the expenditure of the grant and on the progress of the research project.

### *Research Application Information Online*

The following website **sta.uwi.edu/postgrad/awards.asp** contains all the downloadable information regarding the Campus Research and Publication Fund. The Call for Applications Guidelines is separate for Staff and Students:

#### *Downloads*

- Call for Applications - Staff
- Call for Applications - Student
- Staff Research Award Application
- Application for Graduate Student Research Award
- Distribution Range
- Rules Governing the Campus Research and Publication Fund
- Eligibility, priorities and accountability for the Campus Research and Publication Fund
- Reporting format for Staff
- Reporting format for students
- Funding for Graduate Students to Attend Conferences
- Establishment of Collaborative Links

### **Conference Participation/ Research Visits**

Subject to availability of funds, the Campus Committee considers requests from Supervisors/Heads of Departments for assistance with travel/costs in connection with research projects, in which research candidates are involved, and supports the attendance of graduate students involved in the presentation of a paper at regional and extra regional conferences. There is now a requirement that students produce publications out of these conference presentations.

### **Reproduction of Thesis Grant**

A grant is available for full-time students towards the production of PhD/MPhil theses or its equivalent provided that the thesis is submitted within one year in excess of the minimum time specified in the Regulations. This is known as the Reproduction of Thesis Grant and students are required to submit a letter to the Office of Graduate Studies and Research in writing requesting this grant. The letter should include the date of commencement of degree and submission of thesis. The Chair approves this grant.

### **Per Capita Grant**

Where funds are available from the Departmental Allocation, called the Per Capita Grant, small grants can also be made to part-time and full-time MA, MSc, MPhil and PhD students to assist in the production of research papers.

For the disbursement of funds for thesis preparation, no consideration shall be accorded members of staff who are also graduate students.

#### *Per Capita Grant – Higher Degree by Coursework*

Students pursuing higher degrees by coursework i.e. Taught Master's (MSc, MA) are not normally considered for UWI awards but may be considered for a grant for the research portion of the programme. These funds can be accessed from the Departmental Allocation called the Per Capita Grant. Students who are registered in self-financing postgraduate programmes as well as Diploma programmes are not eligible to apply for funding from the Per Capita Grant.

#### *Per Capita Grant – Higher Degree by Research*

Students pursuing higher degrees by research i.e. MPhil/ PhD degrees are also eligible to apply for funding from the Per Capita Grant.

### **Studentships**

Part-time employment may also be available and enquiries should be made to the Head of the Department and/or Dean, Faculty in which the student is pursuing a higher degree.

Graduate students may be employed within the University for up to twelve (12) hours a week without losing their full-time student status. This can be in the form of Demonstrators, Teaching Assistants, Research Assistants and Student Assistants.

### **Government Assistance for Tuition Expenses (GATE)**

Students who are citizens of Trinidad and Tobago only may apply to the Ministry of Science, Technology and Tertiary

### **Education for grants to cover 50% of their tuition fees.**

These Regulations apply to graduate students. The University reserves the right, without notice, to withdraw or restructure courses, to make changes in the regulations and fees, as it may from time to time judge to be necessary or desirable. Admission to the University is subject to the requirement that the student will comply with the University's registration procedure and will observe the Ordinances and Regulations of the University.



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