



Department of Mathematics

The University of the West Indies, Mona Campus

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PHONE NUMBER : 876-977-1810

Our Teaching Team

- ▶ Dr. Nagarani Ponakala Head
- ▶ Mr. Sam McDaniel Undergraduate Coordinator
- ▶ Mr. Howard Hines Actuarial Science and Mathematics of Finance Coordinator
- ▶ Mr. Ajani Ausaru Mathematics and Education studies coordinator
- ▶ Dr. Raymond McEachin Mathematics Team
- ▶ Dr. Mahesha Narayana Mathematics team
- ▶ Dr. Tamika Royal-Thomas Statistics team
- ▶ Ms. Britta Hay Actuarial Science Team
- ▶ Dr. Diptiranjana Behera Mathematics team and Projects Coordinator
- ▶ Dr. Kirk Morgan Outreach Coordinator
- ▶ Mr. Omar Forrest Mathematics team and Tutorials Coordinator
- ▶ Mr. St. Elmo Whyte Actuarial Science Team
- ▶ Dr. Nordia Thomas Actuarial Science and Statistics team and Graduate Coordinator

Our Administrative support

- ▶ **Mrs. Orinthia Fisher-Howe (upstairs room No: 2)**
- ▶ **Mrs. Marsha Jack (At Maths office ground floor)**
- ▶ **Ms. Tashika Roach (At Maths office ground floor)**
- ▶ **Ms. Kathlene Gardner (At Maths office ground floor)**

Members of Staff contd.



Head of Department

▶ Dr. Nagarani Ponakala

Mathematics Team



- ▶ **Sam McDaniel**
- ▶ **Undergraduate Coordinator**



- ▶ **Dr. Raymond McEachin**
- ▶ **Lecturer**



- ▶ **Dr. Kirk Morgan**
- ▶ **Lecturer**



- ▶ **Dr. Diptiranjana Bahara**
- ▶ **Lecturer**

Mathematics Team continues



- ▶ **Mr. Ajani Ausaru**
- ▶ **Lecturer**
- ▶ **Coordinator, Mathematics with Education**



- ▶ **Mr. Omar Forrest**
- ▶ **Lecturer**



- ▶ **Dr. Mahesha Narayana**
- ▶ **Senior Lecturer**

Mathematics Team (specialized in Actuarial Science, Mathematics of Finance and Statistics)



▶ **Mr. Howard Hines**
▶ *Director of Actuarial Science and Mathematics of Finance*



▶ **Mr. St Elmo Whyte**
▶ *Senior Lecturer*



▶ **Ms. Britta Hay**
▶ *Lecturer*



▶ **Dr. Nordia Thomas**
▶ *Lecturer*



▶ **Dr. Tamika Royal-Thomas**
▶ *Senior Lecturer*

Mathematics Team continues

- ▶ **Damian Welsh**
- ▶ **Prof. Alexandra Rodkina**
- ▶ **Tutors**

Adjunct Assistant Lecturer
Professor Emeritus

Administrative Team



▶ **Mrs. Orinthia Fisher-Howe**
▶ ***Senior Administrative Assistant***



▶ **Mrs. Marsha Jack**
▶ ***Senior Secretary***



▶ **Ms. Tashika Roach**
▶ ***Administrative Assistant***



▶ **Ms. Kathlene Gardner**
▶ ***Clerical Assistant***

Support Team



- ▶ **Mrs. Yvonne Francis**
- ▶ ***Chief Office Attendant***



- ▶ **Mr. Donald Daley**
- ▶ ***Snr. Office Attendant***



- ▶ **Ms. Sandra Smith**
- ▶ ***Office Attendant***

B.Sc Programmes we offer

- ▶ **BSc Mathematics (Major & Minor)**
- ▶ **BSc Mathematics & Modelling Processes**
- ▶ **BSc Mathematics with Education Studies**
- ▶ **BSc Statistical Science**
- ▶ **BSc Mathematics of Finance**
- ▶ **BSc Actuarial Science**
- ▶ **Other combinations in collaboration with other departments can be chosen**
 - ❑ **Mathematics (Major or Minor) and Computers (minor or major)**
 - ❑ **Mathematics (Major or Minor) and Economics (minor or major)**
 - ❑ **Mathematics (Major or Minor) and Physics (minor or major)**

B.Sc Mathematics Minor (18 advanced credits)

Level I

**MATH1141 – Introductory Linear
Algebra & Analytic
Geometry**

MATH1142 – Calculus I

MATH1151 – Calculus II

**MATH1152 – Introduction to
Formal Mathematics**

Level II

**MATH2401 Elements of
Mathematical Analysis**

**MATH2410 First Course in Linear
Algebra**

Level III

**MATH3155 Complex variables
MATH3412 advanced linear
algebra**

**Plus two electives (2) from Level II
and III.**

Are in you track if you are doing BSc Mathematics Major
(advance credits needed 36)

Level I

**MATH1141 – Introductory Linear
Algebra & Analytic**

Geometry

MATH1142 – Calculus I

MATH1151 – Calculus II

**MATH1152 – Introduction to
Formal Mathematics**

Level III (18 credits)

**MATH2401 – Elements of
Mathematical Analysis**

**MATH2410 – A First Course in
Linear Algebra**

**MATH2404 – Introduction to
Probability Theory**

**MATH2411 – Introduction to Abstract
Algebra**

MATH2403 – Multivariable Calculus

**MATH2420 – Ordinary Differential
Equations**

Level III (18 credits)

MATH3400 – Complex Variables

MATH3412 – Advanced Linear Algebra

**MATH3402 – A course on Metric Spaces
& Topology**

Plus three (3) level III electives

BSc Mathematics Major: Career opportunities

- ▶ **Teaching (with or without certification)**
- ▶ **Banking and Finance (as investment analyst, Financial planner)**
- ▶ **Industries (Inventory control analyst, Operation Research team, business analyst, Data analyst..)**
- ▶ **In Government Ministries includes finance, education, agriculture, mining....**
- ▶ **Can pursue M.Sc**
- ▶ **Can be a scientist by pursuing Ph.D degrees with different specializations**
- ▶ **Computer Analyst (with some knowledge in computing)**

BSc Mathematics & Modelling Processes(60 advanced credits)

Level I	Level II (30 credits)		Level III (30 credits)	
MATH1141	MATH2401	MATH2411	MATH3400	MATH3402
MATH1142	MATH2410	MATH2403	MATH3412	MATH3424
MATH1151	MATH2421	MATH2407	MATH3421	MATH3423
MATH1152	MATH2404	MATH2420	MATH3422	
	MATH2430	STAT2001		
				3 More electives From level III

BSc Mathematics & Modelling Processes: Career opportunities

- ▶ Teaching
- ▶ In Scientific laboratories as researchers
- ▶ Industries (Inventory control analyst Operation Research team, business analyst, Data analyst..)
- ▶ Transportation field (Shipping logistics, port management)
- ▶ Government offices in research and development field
- ▶ pursue post graduation (M.Sc) and research degrees (M.Phil, Ph.D).

BSc Mathematics with Education (option 1)

(Full funding is supported by Ministry of Education)
(60 advanced credits)

Level I		Level II		Level III	
MATH1141	EDPS1003	MATH2401		MATH3402	EDRS3019
MATH1142	EDTL1020	MATH2410		MATH3425	EDTL3017
MATH1151	EDTL1021	MATH2404	EDMC2213	MATH3423	EDME3205
MATH1152		MATH2403	EDTL2021		EDMA3208 or EDMA3217
		MATH2420	EDMA2216		
		STAT2001			
		Plus 3 level II or level III Math courses Plus one core math education course			

Careers in BSc Mathematics with Education studies

- ▶ **Teachers**
- ▶ **Education officers**
- ▶ **Pursue post graduation in Mathematics as well as Education**
- ▶ **Research degrees in both mathematics and education**
- ▶ **And of course you have all the opportunity that Mathematics major has (as before)**

BSc Statistical Science (60 advanced credits)

Level I		Level II		Level III	
MATH1141	STAT1001	MATH2401	STAT2001	STAT3001	MATH3423
MATH1142		MATH2404	STAT2002	STAT3002	
MATH1151		MATH2410	STAT2003	STAT3003	
MATH1152		MATH2407	STAT2004		
		Plus 8 (8x3=24 credits) electives from Level II and III			

Career paths for statistical science

- ▶ Data analyst in industries
- ▶ Health (medical statistician, pharmaceutical statistician)
- ▶ Software developer (like R and other softwares)
- ▶ Research and development (data scientist,...)
- ▶ Teaching
- ▶ Environment (air traffic control analyst,...)
- ▶ Government (Research analyst
- ▶ Pursuing higher degree (M.Sc) in Maths, Statistics, Applied Statistics
- ▶ Research degrees

BSc Mathematics of Finance (new)

Level I (33 credits)		Level II (30 credits)		Level III (27+9)	
MATH1141	PHIL1002	MATH2401	MATH2407	MATH3801	MATH3802
MATH1142	ECON1000	MATH2403	MATH2420	STAT3001	MATH3803
MATH1151	ECON1012	MATH2404	MATH2403		MATH3423
MATH1152	ACCT1003	MATH2410	STAT2001	ECON3005	STAT3002
COMP1126	ACCT1005	MGMT2023	MGMT2068	ECON3072	MGMT3048
COMP1127				Plus 9 credits with specified subjects as M3412,3414, 3421,3224, Econ 2002,2003,3007, COMP3161	

Career paths with B.Sc Mathematics of finance but not limited to

- ▶ Pursue Profession as Chartered Financial Analyst
- ▶ Pursue M.Sc in Mathematics of Finance or related field
- ▶ Portfolio Management
- ▶ Financial Advisor
- ▶ Security Analyst
- ▶ Financial Analyst
- ▶ Investment Manager
- ▶ Financial Engineer

BSc Actuarial Science(66 advanced credits)

Level I (36credits)		Level II (27 credits)		Level III (27)	
MATH1141	COMP1161	MATH2401	MATH2407	MATH3801	MATH3802
MATH1142	COMP1220	MATH2404	MATH2420	MATH3803	MATH3804
MATH1151	ECON1000	MATH2410	MATH2702	MATH3805	MATH3806
MATH1152	ECON1012	MATH2701	STAT2001	STAT3001	STAT3002
COMP1126	ACCT1003	MGMT2023			MGMT3048
COMP1127	ACCT1005			Plus 12 credits from specified subjects from level II and III.	

Opportunities with Actuarial degree

- ▶ **Actuary**
- ▶ **Risk Analyst or consultant**
- ▶ **Insurance underwriter**
- ▶ **Financial Analyst**
- ▶ **Market Research Analyst**
- ▶ **Teacher**
- ▶ **Pursue post graduation**

Some Achievers in different fields to bring to you (among millions)

- ▶ **Chevano Baker – Rhode Scholar 2019**
- ▶ **Nikhil Asnani – Assistant Vice President at Guardian Life**
- ▶ **Andre Small – Senior Lecturer at Maritime Institute**
- ▶ **Timar Jackson – Rhode Scholar 2014**
- ▶ **Everett Mosely – Prime Minister Award for Excellent 2014**
- ▶ **Sekayi Campbell – Former Director of Financial Services Commission**
- ▶ **Nigel Clarke – Minister of Finance**

Help in changing and declaring in the major

Talk to

- ▶ **Sam McDaniel**
- ▶ **Mr. Howard Hines**
- ▶ **Mrs. Orinthia Fisher-Howe**



Participate/utilize the activities such as:

- ▶ Career fair
- ▶ Internship programme
- ▶ Club activities
- ▶ Personality development seminars
- ▶ Bridging programme (you can work with us)

Where do I get all the information?

- ▶ Programmes information
 - webpages
- ▶ Activities in the department
 - webpage and notice board
- ▶ Awards available in the department
 - webpage and notice board
- ▶ Clubs information
 - webpage and notice board