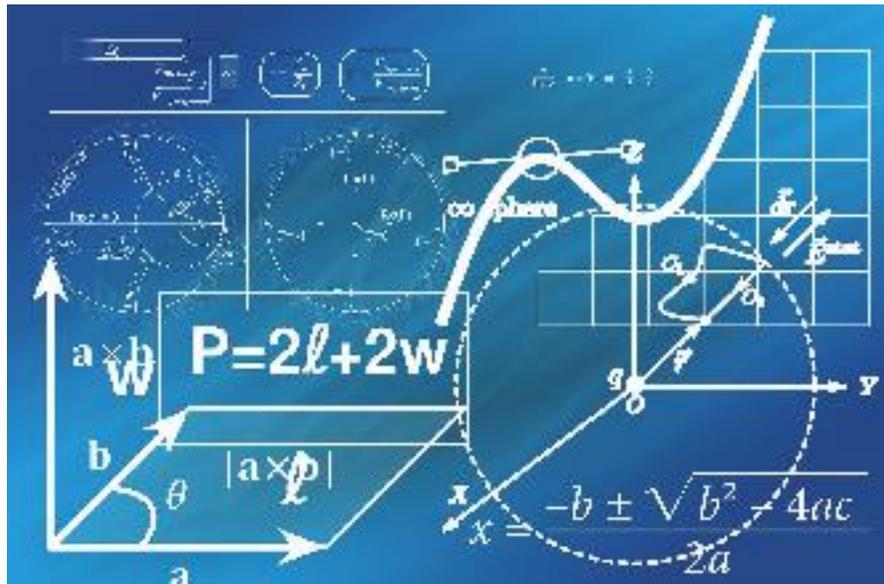# BSc Secondary Mathematics (Model A)

ACADEMIC YEAR
2020/2021

Programme Delivery Department (PDD)

Programme Manager: Mrs. Colleen Robinson-Hunte

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IMPORTANT INFORMATION TO GUIDE COURSE SELECTION & REGISTRATION

Kindly review this document at the start of each semester for any adjustments to the schedule.

New Students

Students who enrolled as of Academic Year 2019/2020 must follow the prescribed course of study and sequence given for their programme.

Continuing Students

Students are required to successfully, complete all courses in Year 1 before they can proceed to undertake courses in Year 2. Please continue to follow the prescribed course of study given.

Advice For Managing Course Load

Most students carry between 1 – 3 courses per semester. **For the working adult**, we recommend that you **do not attempt more than three (3) courses** per semester and two (2) courses in summer.

Plan wisely to suit your particular situation so you may perform at your full potential. Do not jeopardize your long-term goals by being unrealistic about what you can handle.

IMPORTANT NOTE for New Students

Orientation is the first step to achieving academic and personal success at the UWI Open Campus. It supports you by assisting with your transition to the online environment. It will equip you with the needed navigational skills to function successfully online and provide pertinent information about the available services, go to persons and responsibilities as an online student. It is imperative that you attend the online sessions offered by the Programme Delivery Department (PDD) as well as the session offered at your local site office.

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The **BEd. Secondary Mathematics** This programme is offered in collaboration with the School of Education, UWI, Mona and is designed to improve the quality of teaching and learning at the secondary schools for qualified teachers. It uses the blended learning approach which is ideal for in-service teachers to make use of training opportunities while continuing with their careers. The programme is delivered online using the Open Campus "Learning Exchange" environment (Moodle/Learning Management System).

The **BEd. Secondary Mathematics** is a 66-credit undergraduate programme. The duration of the programme is 3 years full-time and five years part-time. In order to qualify for the award of the BEd. Secondary Mathematics, students must attain the credits at the respective levels as shown in the Table below.

Awards	Level 1	Level 2	Level 3	Total Credits
Degree	24 credits	24credits	18 credits	66 credits

BEd. Secondary Mathematics operates under a semester system.

- Semester 1 and 2 each, have thirteen (13) weeks of instruction plus an examination period.
- Summer session has seven (7) weeks of instruction plus the examination period.

Remember to check the programme-advising document before the start of registration and during the semester for any updates or additional information.

**Pre-requisites for Matriculation into
the BSc Political Science Programme**

- **Mathematics Requirements:** For entry to the Undergraduate programmes, an approved qualification in Mathematics is required. The minimum Mathematics requirement is a pass at CSEC or the equivalent. Candidates who do not meet this requirement must successfully complete the approved remedial Mathematics course Improving your Math Skills (IYMS1001). IYMS1001 is offered in semester 1, 2 and summer.

- **English Language Requirements:** The English Language Proficiency Test (ELPT) is used to assess whether applicants to the Undergraduate programmes possess a satisfactory level of writing and reading proficiency in English for university academic purposes. ELPT is a pre-requisite for FOUN1001: English for Academic Purposes. For those persons requiring ELPT, the exam schedule is posted by the Registry on the Department's Web Page at: http://www.open.uwi.edu/undergraduate/home. Also, check your site office for more details. The earliest offering of ELPT **August 6th, 2020.**

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- **Technology Requirement:** Students will need to have access to a computer with Internet access.

COURSE CODE	COURSE NAME	SEMESTER	PRE-REQUISITES & TIPS
BEd. Secondary Mathematics Programme Pre-requisites for Matriculation			
LEVEL 1			
FOUN1001	English for Academic Purposes	1, 2	ELPT – English Language Proficiency* * If your Offer Letter from Admissions indicates that you are required to take the ELPT then you must first pass this Pre-requisite test before you are allowed to do FOUN1001. Students requiring ELPT, the earliest offer is: August 8th, **2020**. **TIP:** If you already passed the ELPT you should register for FOUN1001 in Semester 1. To move on to Level 2 courses students must successfully pass this course. **With effect from Academic year 2019-2020, all newly admitted students to the University of the West Indies will be required to register for the required Foundation Course in Academic Literacies (unless otherwise exempted) as part of their Level One undergraduate degree programme. Part-time students will be required to register for this course during the first year of their registration.** **Assessment: 100% Coursework**
EDME 1001	Algebra	1	**None:** **This course is the prerequisite to EDME2201, EDME2204, EDME3201, EDME3202.** This course aims to give teachers some understanding of the nature of algebra and to develop skills and techniques common to CPE and A Level syllabuses which will be required for later mathematics courses. **Assessment: 50% Coursework 50% Exam**
EDMA2213	Children Learning Mathematics	1	**None:** **This course is the prerequisite to EDMA2217, EDMA320 & EDMA3205.** This course provides an introduction to issues of learning generally and Mathematics learning in particular. Each member of the course will work closely with an individual learner over a period of several weeks. **Assessment: 100% Coursework**
EDCE2025	Introduction to Computer Technology in Education	1,2	**None:** In this course students will be able to acquire knowledge of computer, how the computer affects teaching and learning. It will also enable them to use the computer as a tool for manipulation of text, numbers and graphics; creating presentations; publishing; and information transfer. This is a core education course and should be taken within the first year of study. **Assessment: 40% Coursework 60% Exam**

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COURSE CODE	COURSE NAME	SEMESTER	PRE-REQUISITES & TIPS
EDMA2214	The Nature and Scope of Mathematics	2	**None:** **This course is the prerequisite to EDMA2217, EDMA3206 & EDMA3205.** The purpose of this course is to extend students' knowledge of mathematics working in a variety of ways, which will include the use of graphic calculators and computers. In carrying out this work, students will be encouraged to think about the experience of learning mathematics and consider the implications of this for their work as teachers. **Assessment: 100% Coursework**
EDME1002	Geometry	2	**None:** **This course is the prerequisite to EDME2201, EDME2203**. This course aims to allow teachers to appreciate the nature, purposes and history of Geometry in various forms in describing and working on properties of space. **Assessment: 50% Coursework, 50% Final exam**
EDMA2217	Analyzing Mathematics Teaching	3	**EDMA2213 & EDMA2214 are the prerequisites for this course** **This course is the prerequisite to EDMA3217.** This course is designed to give participants insights of effective ways of presenting school mathematics to students in the lower grades at secondary schools. It builds on the content taught in EDMA2213 and EDMA2214 and highlights significant issues that emerge in mathematics teaching and learning. The course provides opportunities for the participants to plan for mathematics teaching and to critique mathematics teaching through the use of videotaped lessons with a view to having the participants reflect on their own teaching and to consider ways of improving their practice. **Assessment: 100% Coursework**
EDME2201	Introductory Calculus	3	**EDME 1001 & EDME1002 are the prerequisites for this course** **This course is the prerequisite to EDME2202, EDME3202.** This course is intended to provide the student with an initial understanding of differential and integral calculus and its applications. **Assessment: 60% Coursework 40% Exam**

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COURSE CODE	COURSE NAME	SEMESTER	PRE-REQUISITES & TIPS
		LEVEL 2	
FOUN1301	Law, Governance, Economy and Society in the Caribbean	1	**None:** This is a multi-disciplinary course of the Faculty of Social Sciences. It will introduce students to some of the major institutions in Caribbean society. This exposure is to both the historical and contemporary aspects of Caribbean society, including Caribbean legal, political and economic systems. In addition, Caribbean culture and Caribbean social problems are discussed. **Assessment: 100% Coursework**
EDME2202	Statistics and Probability	1	**EDMA2201 is the prerequisite for this course** This course is to teach the basic concepts and some elementary methods in probability and statistical inference. **Assessment: 60% Exam 40% Coursework**
EDMA3206	Investigation and Problem Solving	1	This course aims to enable participants to experience investigating themselves and then develop the appropriate teaching skills for such work in their classrooms. **Assessment: 100% Coursework**
EDMA3205	Teaching Mathematics in Grades 10 & 11	2	**EDMA2213, EDME1002, EDME2203, EDME1001, EDME3201 & EDMA2214 are the prerequisites for this course.** This course aims to strengthen participants' knowledge of the topics in the Optional section and to be able to apply sound pedagogy in order to enable understanding on the part of students. **Assessment: 40% Exam 60% Coursework**
EDME2203	Analytic Geometry and Trigonometry	2	**EDME1002 is the prerequisite for this course.** In this course the student will develop skills in the complex number system, trigonometry and the analytic geometry. Analytic geometry is a 17th century development that bridges the areas of geometry and algebra. It calls for the use of algebraic expressions to define geometric shapes such as points, lines, circles, etc. Geometries will be considered with an emphasis on problem solving. **Assessment: 50% Coursework 50% Exam**
EDME2204	Discrete Mathematics	2	**EDME1001 is the prerequisite for this course.** **This course is the prerequisite to EDME3201, EDME3204.** The course is intended to provide students with exposure to relevant ideas for future courses in Calculus and/or Statistics. It is an important tool in the ongoing rapid revolution of electronics, computers and also provides the logical foundations upon which much of mathematics rests. **Assessment: Assessment: 50% Coursework 50% Exam**

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COURSE CODE	COURSE NAME	SEMESTER	PRE-REQUISITES & TIPS
EDMA3217	Pedagogical Issues in the Teaching of Mathematics	3	**EDMA2217 is the prerequisite for this course** In this course, participants will be exposed to educational research studies and literature that have explored some of these issues with a view to gaining a deeper understanding of the issues and developing action plans for their own practice in relation to these issues and others. **Assessment: 100% Coursework**
EDME3201	Linear Algebra	3	**EDME1001 & EDME 2204 are the prerequisite for this course** Linear algebra is an important component of modern mathematics. It provides a language and computational framework for posing and solving several problems in various disciplines. **Assessment: 40% Coursework 60% Exam**
Level 3			
EDME3202	Calculus II	1	**EDME1001 & EDME2201 are the prerequisites for this course.** **This course is the prerequisite to EDME3203.** This course follows on from Calculus I and is intended to provide students with an intuitive understanding of differential and integral calculus and its applications. This provides students with the additional tools needed to tackle problems involving integration and differentiation. **Assessment: 40% Exam 60% Coursework**
EDME3204	Abstract Algebra	1	**EDME2204 is the prerequisite for this course** This course provides students with a better understanding of the rules governing the basic algebraic operations that are performed in various number systems. Students will also be introduced to the proofs of some fundamental facts. **Assessment: 50% Coursework 50% Exam**

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COURSE CODE	COURSE NAME	SEMESTER	PRE-REQUISITES & TIPS
EDTL3026	Investigating our Teaching	1, 2	**EDPH2024 is the prerequisite for this course.** This is a 6-credit course taught across 2 semesters (starts in semester 1 and finishes in semester 2) . Semester 2 entails a practical component as well as submission of an action research. This course is designed to aid in the understanding of the role of the teacher as a learner, researcher, self-evaluator and reflective practitioner. It provides an opportunity for students to apply their knowledge of the teaching learning process in implementing an innovative teaching experiment to address a problem in their classrooms, to reflect critically on the experience and to write a report which informs their future practice. **Assessment: 100% Coursework**
EDPH2024	Issues and Perspectives in Education	1,2	**None:** **This course is the prerequisite for EDTL3026** This course seeks to develop the students' understanding of the interplay of forces which affect teaching and learning and influence educational practice and policy. Students should thereby come to appreciate the critical and dynamic role they play as the educators of the citizens of tomorrow. **Assessment: 50% Coursework 50% Exam**
EDME3203	Calculus III	2	**EDME3202 is the prerequisite for this course** This course is a continuation of Calculus II. Students will be exposed to a more rigorous treatment of fundamental concepts, such as limits and convergence in order to provide them with a deeper understanding of the important role played by these concepts in Calculus. **Assessment: 35% Coursework, 25% Midterm exam, 40% Final Exam**