

# Programme Advising

## BEd Secondary Mathematics (Untrained Teacher /Model B)

ACADEMIC YEAR 2017/18

Academic Advising for Academic Year 2017/18

**ADVICE:** For students registered to the BEd Mathematics programme Model B (untrained teacher) option.

All courses in this programme is for three [3] credits except EDTL3026 for six [6] credits spread over two semesters.

COURSE CODE	COURSE NAME	SEMESTER OFFERED			PRE-REQUISITE	IMPORTANT INFORMATION TO GUIDE COURSE SELECTION / REGISTRATION
						<p>SUMMARY POINTS:</p> <ol style="list-style-type: none"> <li>1. Only students with certification in teaching should register in this option (Model A). Please refer to your offer letter before proceeding.</li> <li>2. This is a structured programme. All courses must be taken in the order it is presented.</li> <li>3. You much check to ensure that courses listed in this document are also in your profile for registration. If not contact Undergrad Department for advise.</li> <li>4. For those students requiring the English Language Proficiency Test (ELPT) - the exam schedule is posted during the year by the Registry on your Department's Web Page at:  <a href="http://www.open.uwi.edu/undergraduate/home">http://www.open.uwi.edu/undergraduate/home</a> </li> </ol> <p>NB: The earliest offering is August 2015 (Check with your Site Coordinator as well for specific date)</p> <p>If you already passed the ELPT you should register for</p>

						FOUN1001 in Semester 1.
<b>LEVEL 1</b>		<b>Sem 1</b>	<b>Sem 2</b>	<b>Summer</b>		
FOUN1001	English for Academic Purposes	1	2		ELPT – English Language Proficiency Test	If your Offer Letter from Admissions indicates that you are required to take the ELPT then you must first pass this test before you do FOUN1001.
EDTL1020	Introduction to Teaching and Learning	1				This course is the prerequisite to EDTL2020  This course will acquaint pre-service teachers with the multi-faceted nature of the Caribbean classrooms; sensitize them to the need for careful analysis of personal as well as professional experience; increase their powers of observation and ability to reflect on the nature of teaching; develop their ability to engage in oral and written evaluations of experience and observation
EDME1001	Algebra	1				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.
EDCE2025	Introduction to Computer Technology in Education		2			This course is the prerequisite to EDEA3301  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.
EDME1002	Geometry		2			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.
EDTL1021	Planning for Teaching		2			<p>This course is the prerequisite to EDTL2020</p> <p>The beginning teacher will explore the range of methods and procedures which can be used in teaching; demonstrate skills in unit and lesson planning; develop skills in teaching through team planning and in micro-teaching; reflect and refine methods of instruction; demonstrate skills in oral and written evaluation of their peer's teaching and their own teaching experiences.</p>
EDME2201	Introductory Calculus			3	EDME1001 & EDME1002	<p>This course is the prerequisite to EDME2202, EDME3202.</p> <p>This course is intended to provide the student with an initial understanding of differential and integral calculus and its applications.</p>
EDPS1003	Pedagogical Issues in the Classroom			3		In this course students will examine certain classroom events and case studies with a view to develop their analytical skills, and thereby come to appreciate how knowledge of psychology can inform their classroom behaviour.
<b>LEVEL 2</b>						<p><b>SUMMARY POINTS</b></p> <p>Students can only progress to Level 2 having successfully completed all Level 1 courses.</p>
<b>CODE</b>	<b>TITLE</b>	<b>Sem 1</b>	<b>Sem 2</b>	<b>Summer</b>	<b>Pre-requisite</b>	
EDCU2013	Introduction to Curriculum Studies	1				This course seeks to provide a conceptual framework that can be used for curriculum analysis and decision-making by exposing students to different views of the major curriculum elements and the dynamic nature of the curriculum process. It also seek to expose students to psychological and sociological influence on the curriculum as well as how change occurs in

						and through the curriculum.
EDMA2213	Children Learning Mathematics	1				<p>This course is the prerequisite to EDMA2217, EDMA3206 &amp; EDMA3205.</p> <p>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.</p>
FOUN1301	Law, Governance, Economy and Society in the Caribbean	1				<p>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.</p>
EDTL2020	School Based Experience 1		2		EDTL1020 & EDTL1021	<p>This course is intended for students without previous teacher training providing opportunities to study key aspects of school life and to gain some initial teaching experience in their specialist fields.</p>
EDMA2214	The Nature and Scope of Mathematics		2			<p>This course is the prerequisite to EDMA2217, EDMA3206 &amp; EDMA3205.</p> <p>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.</p>
EDME2203	Analytic Geometry and Trigonometry		2		EDME1002	<p>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.</p>
EDPS2003	Motivation and the Teacher			3	EDPS1003	<p>This course seeks to introduce Psychology as a fundamental discipline, on which is essential to an understanding of the phenomenon of human behaviour. The specific aims are to:</p>

						<ul style="list-style-type: none"> <li>i. guide teachers to examine their motives for choosing teaching as a profession;</li> <li>ii. deepen their understanding of human behaviour, largely through exploring their own motives and values;</li> <li>iii. transfer this knowledge to the learner and the learning environment.</li> </ul>
EDMA2217	Analyzing Mathematics Teaching			3	EDMA2213 & EDMA2214	<p>This course is the prerequisite to EDMA3217.</p> <p>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.</p>
<b>LEVEL 3</b>		<b>Sem 1</b>	<b>Sem 2</b>	Summer	Pre-requisite	<p><b>SUMMARY POINTS</b></p> <p>Students can only progress to Level 3 having successfully completed all Level 2 courses.</p>
<b>CODE</b>	<b>TITLE</b>	<b>Sem 1</b>	<b>Sem 2</b>	<b>Summer</b>	Pre-requisite	
EDPH2024	Issues and Perspectives in Education	1				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.
EDME2202	Statistics and Probability	1			EDMA2201	This course is to teach the basic concepts and some elementary methods in probability and statistical inference.
EDMA3206	Investigation and Problem Solving	1			EDMA2213	This course aims to enable participants to experience investigating themselves and then develop the appropriate teaching skills for such work in their classrooms.

					& EDMA2214	
EDME2204	Discrete Mathematics		2		EDME1001	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.
EDME2006	Classroom Testing and Evaluation		2			At the end of the course the students will: <ul style="list-style-type: none"> <li>i. Understand and articulate the rationale for educational measurement and evaluation</li> <li>ii. Understand the classification of objectives and their use in the table of specification</li> <li>iii. Appreciate and utilize the use the table of specification in compiling a test</li> <li>iv. Be sensitized to specified alternative assessment measures</li> <li>v. Understand and use statistics in a testing and measurement environment</li> <li>vi. Appreciate the need for and application of valid data collection instruments</li> <li>vii. Examine and value standardized testing for educational assessment</li> <li>viii. Understand the value and need for simple classroom research study</li> </ul>
EDMA3205	Teaching Mathematics in Grades 10 & 11		2		EDMA2213 & EDMA2214	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.
EDMA3217	Pedagogical Issues in the Teaching of Mathematics			3	EDMA2217	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.

EDME3201	Linear Algebra			3	EDME1001 & EDME2204	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.
<b>LEVEL 4</b>		<b>Sem 1</b>	<b>Sem 2</b>	Summer	Pre-requisite	<p>SUMMARY POINTS</p> <p>Students can only progress to Level 4 having successfully completed all Level 3 courses.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• <b>A finalizing student is</b> a student, who has successfully passed all FOUNDATION courses, has followed the sequence of course offerings and has now completed most of the Level 3 courses of their programme.</li> <li>• <b>A Graduating Student is</b> a finalizing student who has only a maximum of 3 courses to complete.</li> </ul>
<b>CODE</b>	<b>TITLE</b>	<b>Sem 1</b>	<b>Sem 2</b>	<b>Summer</b>	<b>Pre-requisite</b>	
EDTL3026	Investigating our Teaching	1	2			<p>This is a 6-credit course –taught across 2 semesters. Semester 2 entails a practical component as well as submission of an action research.</p> <p>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.</p>
EDME3202	Calculus II	1			EDME1001 & EDME2201	<p>This course is the prerequisite to EDME3203.</p> <p>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.</p>
EDME3204	Abstract Algebra	1			EDME2204	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.
FOUN1101	Caribbean Civilization		2			DO ANY <u>ONE</u> FOUNDATION COURSE
FOUN1210	Science, Medicine & Technology					
EDME3203	Calculus III		2		EDME3202	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.