Applied Mathematics Programme

(*The Study Plans provided on the SAI website are for reference only. For any questions, please contact your Course Coordinator.)

Course Code	Course Title	Year One				Year Two			Three	Year	Four
Course code		Sem 1	Winter	Sem 2	Sem 1	Sem 2	Summer	Sem 1	Sem 2	Sem 1	Sem 2
I. Common Core Cours	ses (24 Units)										
Common Core Courses (1	Required) (24 Units)										
MATH1053	Linear Algebra I	3									
MATH1073	Calculus I	3									
COMP1023	Foundations of C Programming	3									
MATH1063	Linear Algebra II			3							
MATH1083	Calculus II			3							
STAT2063	Probability Theory				3						
MATH4123	Final Year Project I (MATH)									3	
MATH4163	Final Year Project II (MATH)										3
II. Major Required Co	urses (30 Units)										
COMP2003	Data Structures and Algorithms				3						
MATH2043	Ordinary Differential Equations				3					1	
MATH2053	Mathematical Analysis				3						
MATH4083	Numerical Analysis					3					
OR4023	Optimization					3					
STAT3083	Applied Statistics					3		İ	<u> </u>		
MATH4093	Complex Analysis							3			
MATH4103	Mathematical Modelling							3			
MATH3033	Partial Differential Equations								3	1	
MATH3163	Real Analysis								3	1	
III. Major Elective Cou				l	<u>I</u>	Į.	l				
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ME01 ME02 ME03 ME0						3		3	3	3	
IV. University Core Co	urses (37 Units)										
UCLC1003	University Chinese			3							
UCLC1013	English for Academic Purposes I	3									
UCLC1023	English for Academic Purposes II			3							
UCAI1003	Introduction to AI Literacy	3									
CHI1103	Introduction to Modern Social Theories				3						
CHI1203	Morality and Foundations of Law			3							
CHI1063	Chinese Culture and Modern China					3					
CHI1073	Contemporary Chinese Society and Thought I	3									
CHI1253	Contemporary Chinese Society and Thought II					3					
CHI1193	Contemporary World and China [®]						2				
MT1003	Military Training		2								
WPEX1013	Emotional Intelligence			1							
WPEX2013	Experiential Arts [©]					1					
WPEX2023/WPEX2033	Voluntary Service ²² , or Environmental Awareness				1						
UCHL1XX3	Healthy Lifestyle®	1		1		1					
V. General Education C											
	History and Civilization®				3	1	I	1	I	T	I
Level 1 Foundational Courses	Quantitative Reasoning [®]			3		1	 	1	 	 	
	Values and the Meaning of Life [®]			3							
	Culture, Creativity and Innovation [®] , or Science,										
Level 2 Interdisciplinary Thematic Courses	Technology and Society ² , or Sustainable Communities ²							3	3		
Laval 2	Service-Learning Course [®] , or Service										
Level 3 GE Capstone Courses	Leadership Education Course [®] , or Experiential Learning Course [®] , or Interdisciplinary Independent										3
	Study ²					<u> </u>			<u> </u>	Щ_	
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VI. Free Elective Cours	ses (27 Units)			ı	1						ı
	ses (27 Units) FE05 FE06 FE07 FE08 FE09				3			9	6	9	

¹ This 2-unit course requires student to attend at least 10 lectures within his/her first two years of study.

② This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

③ Students are required to take GFVM1033 Ethics in An Era of Artificial Intelligence and Robotics or GFVM1043 Ethics in Daily Life and Life Sciences under this category.