

BACHELOR OF SCIENCE (MATHEMATICS)

SSCEH 2020/2021

SEMESTER 1			SEMESTER 2		
Code	Name of Course	cr	Code	Name of Course	cr
UHS 1022	<i>Falsafah dan Isu Semasa</i>	2	SSCM 1033	Mathematical Methods II	3
SSCM 1012	Introduction to Mathematics Program	2	SSCM 1313	Computer Programming	3
SSCM 1023	Mathematical Methods I	3	SSCM 1523	Linear Algebra	3
SSCM 1103	Statistics	3	SSCM 1703	Differential Equations I	3
SSCM 1303	Computer Literacy	3	UHLB 1112	English Communication Skills	2
SSCP 1143/ SSCC 1003	Mechanics / Principles of Chemistry	3	UHMS 1182	<i>Penghayatan Etika dan Peradaban*</i>	2
			UHMS 1182	<i>Penghayatan Etika dan Peradaban*</i>	2
			or		
			UHS 1022	<i>Falsafah dan Isu Semasa*</i>	
			UBSS 1032	Introduction to Entrepreneurship	2
Total Credit Hours		16	Total Credit Hours		18
*UHMS 1182 : Local Student					
*UHS 1022 or UHMS 1182 : Foreign Student					
SEMESTER 3			SEMESTER 4		
Code	Name of Course	cr	Code	Name of Course	cr
SSCM 2103	Mathematical Statistics	3	UHLB 2122	Academic Communication Skills	2
SSCM 2423	Numerical Methods I	3	SSCM 2043	Mathematical Methods III	3
SSCM 2773	Differential Equations II	3	SSCM 2613	Advanced Calculus	3
SSCM 2793	Vector Calculus	3	SSCM 2803	Mathematical Modelling I	3
SSCM 3533	Set Theory and Logic	3	SSCM 2833	Linear Programming	3
UHIT 2302	Science and Technology Thinking	2	UHMT 1012	Graduate Success Attributes	2
Total Credit Hours		17	Total Credit Hours		16

* UHLB 1112 for any student who earns band 4 to 6 MUET, IELTS BAND 5.5, TOEFL Score 525 , and TOEFL iBT Score 60 and above, will receive a credit exemption for that subject.

SEMESTER 5			SEMESTER 6		
Code	Name of Course	cr	Code	Name of Course	cr
SSCM 3703	Partial Differential Equations	3	UKQT 3001	Extra – Curricular Experiential Learning (ExCEL)	1
UKQF 2082	Community & Science	2	UHL* 1112	Language Skills Elective	2
UHLB 3132	Professional <i>Communication Skills</i>	2	SSCM 3423	Numerical Methods II	3
U*** 2**2	Soft Skills Elective	2	SSCU 3623	Research Methodology & Information Retrieval	3
Electives (Choose 6 credits)			Elective (Choose 6 credits)		
SSCM 2673	Discrete Mathematics	3	SSCM 3353	C++ Programming	3
SSCM 3503	Complex Variables	3	SSCM 3553	Fields & Rings Theory	3
SSCM 3523	Modern Algebra	3	SSCM 3543	Number Theory	3
SSCM 3793	Calculus of Variations	3	SSCM 3673	Functional Analysis	3
			SSCM 3753	Fluid Mechanics	3
Total Credit Hours		15	Total Credit Hours		15

SHORT SEMESTER		
Code	Name of Course	cr
SSCU 3915	Research Training (HW)	5
Total Credit Hours		5

SEMESTER 7			SEMESTER 8		
Code	Name of Course	cr	Code	Name of Course	cr
SSCU 4902	Undergraduate Project I	2	SSCU 4904	Undergraduate Project II	4
Elective (Choose 12 credits)			Elective (Choose 12 credits)		
SSCM 4163	Stochastic Process	3	SSCM 3153	Inferential Statistics	3
SSCM 4633	Fuzzy Set Theory	3	SSCM 4623	Non-Euclidean Geometry	3
SSCM 4653	Applied Abstract Algebra	3	SSCM 4733	Dynamical Systems	3
SSCM 4683	Topology	3	SSCM 4783	Quantum Mechanics	3
SSCM 4763	Computational Fluid Dynamics	3	SSCM 4813	Optimal Control	3
Total Credit Hours		14	Total Credit Hours		13