

COURSE LIST
SEMESTER I SESSION 2025/2026
BACHELOR OF SCIENCE (MATHEMATICS TECHNOLOGY) WITH HONOURS – BWA
FACULTY OF APPLIED SCIENCE AND TECHNOLOGY

FIRST YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UQU11202	Integrity and Anti-Corruption	1, 3	Open	2
	UQU10903	Integrity and Anti-Corruption <i>*Selected 4 Students Only</i>	1	Open	3
	UQI10202	Moral Studies	3	Open	2
	UQI10102	Islamic Studies	5	Open	2
	UHB13102	English for General Communication	26, 28, 40	Open	2
	UHB13102	English and General Communication <i>*Selected 4 Students Only</i>	32	Open	2
	BWU10401	First Year Seminar <i>*Selected 4 Students Only</i>	1	FAST	1
	BWA10203	Calculus I	1	FAST	3
	BWA10303	Linear Algebra	1	FAST	3
	BWA10703	Statistics and Probability	1	FAST	3
	BWA11102	Basic Accounting	1	FAST	2
	BWA11603	Mathematical Computing Tools	1, 2	FAST	3
Total Credit					20

SECOND YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UQx1xx01	Co-Curriculum II		Open	1
	UQI11202	Philosophy and Current Issues <i>*Selected 1 Student Only</i>	1	Open	2
	UHB23103	English for Technical Communication	44, 47	Open	3
	BWA20303	Ordinary Differential Equations	1	FAST	3
	BWA20403	Linear Programming	1	FAST	3
	BWA21103	Graph Theory and Applications	1	FAST	3
	BWA21403	Statistical Inference	1	FAST	3
	BWA21503	Numerical Methods	1	FAST	3
Total Credit					19

THIRD YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB33103	English for Professional Communication	32, 33	Open	3
	BWA20702	Bachelor Degree Project I	1	FAST	2
	BWA30803	Mathematical Modelling	1	FAST	3
	BWA30303	Partial Differential Equation	1	FAST	3
	BWA33403	Industrial Computing Tools	1,2	FAST	3
	BWA33002	Industrial Computing Tools <i>*Selected 1 Student Only</i>	1	FAST	2
	BWA3**03	Elective II		FAST	3
	*****03	Floating Elective (Elective III)		FAST	3
Total Credit					20
	BWA22003	Network Flow	1	FAST	3
ACTUARIAL SCIENCES					
	BWA31503	Actuarial Mathematics II	1	FAST	3
COMPUTATION					
	BWA24103	Mathematics in Machine Learning	2	FAST	3
SPECIAL OFFERED COURSE					
	BWF40303	Data Visualisation (Floating)	2	FAST	3
	BWF40203	Data Science and Applications (Floating)	1	Open	3

FINAL YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB40102	English for Occupational Purposes	27, 29, 32	Open	2
	BWA30503	Investment Analysis	1	FAST	3
	BWU10302	Occupational Safety and Health	1	FAST	2
	BWA40304	Bachelor Degree Project II	1	FAST	4
	BWA4**03	Elective IV		FAST	3
	BWA***03	Elective V (Floating Elective)		FAST	3
	BWB20403	Data Science <i>*Selected 1 student only</i>	2	FAST	3
	BWA32803	Queuing System and Inventory Control <i>*Selected 1 student only</i>	1	FAST	3
Total Credit					17
OPERATIONAL RESEARCH / OPTIMIZATION					
	BWA41303	Technique of Optimization	1	FAST	3
	*****03	Floating Elective		FAST	3
ACTUARIAL SCIENCES					
	BWA40803	Risk Theory	1	FAST	3
	*****03	Floating Elective		FAST	3
COMPUTATION					
	BWA24103	Mathematics in Machine Learning	1	FAST	3
SPECIAL OFFERED COURSE					
	BWF40303	Data Visualisation (Floating)	1	FAST	3
	UQU40203	Integrity and Anti-Corruption (Floating)	1	Open	3