

School:		School of Science and School of Business Management		<< Declaration of BEng major		>> Declaration of BBA major		Student's Pathway										Remarks	
Program:		Dual Degree Program (BSc in Biotechnology and BBA in Economics)																	
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List		Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Subtotal				
BSc in Biotechnology																			
School Requirements																			
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011		3											3	Students should take COMP 1021, COMP 1022P or COMP 1023 which will also be used to substitute ISOM 2010 and to waive ISOM 2020			
COMP	1022P	Introduction to Computer Science		3															
COMP	1023	Introduction to Python Programming		3															
BSCI		Science Foundation courses [8 courses from the specified elective list. Students should take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each of the four disciplines: CHEM, LIFS/SOCS, MATH/DASC and PHYS; and (ii) 1 laboratory course.]		22-26															
CHEM	1008	Introductory Chemistry		3												LIFS1901 & LIFS1902 are Major Pre-requisite			
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics		3															
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3												Students are recommended to take CHEM1011, CHEM1012, LIFS1903, LIFS2210, LIFS2210 and MATH1013 to satisfy the requirements of both BSCI School requirements and Major requirements			
CHEM	1051	Laboratory for General Chemistry A		1															
CHEM	1052	Laboratory for General Chemistry B		1															
DASC	2010	Calculus for Data Analytics in Science		3															
LIFS	1030P	Environmental Science		3															
LIFS	1001B	General Biology I @		3															
LIFS	1002B	General Biology II @		3															
LIFS	1003	Laboratory for General Biology I		3															
LIFS	1004	Laboratory for General Biology II		1															
LIFS	1930	Nature of Life Sciences		1															
LIFS	2210	Biochemistry I		3															
MATH	1005	Calculus and Statistics		4															
MATH	1006	Calculus, Vectors, and Matrices		4	10	3	6	3								22			
MATH	1013	Calculus I		3															
MATH	1014	Calculus II		3															
MATH	1023	Accelerated Calculus		4															
MATH	1024	Honors Calculus I		3															
MATH	1024	Honors Calculus II		3															
MATH	2003	Introduction to Multivariable Calculus		3															
MATH	2111	Multivariable Calculus		4															
MATH	2111	Matrix Algebra and Applications		3															
MATH	2121	Linear Algebra		4															
MATH	2131	Honors in Linear and Abstract Algebra I		4															
OCEC	1001	The Earth as a Blue Planet		3															
OCEC	1010	Principles and Applications of Environmental Science		3															
PHYS	1101	Introductory Physics		4															
PHYS	1111	General Physics I		3															
PHYS	1112	General Physics I with Calculus		3															
PHYS	1113	Laboratory for General Physics I		1															
PHYS	1114	General Physics II		3															
PHYS	1115	Laboratory for General Physics II		1															
PHYS	1312	Honors General Physics I		3															
PHYS	1314	Honors General Physics II		3															
Required credits for School / Major Pre-requisite Requirements				25-29	10	3	9	3	0	0	0	0	0	0	25				
Major Required Courses and Electives																			
LIFS	1903	Laboratory for General Biology I		1	(1)										0	Note: Students with level 3 or above in HDSE 1x Biology are exempted from taking LIFS 1903			
LIFS	1904	Laboratory for General Biology II		1		1									1				
LIFS	2040	Cell Biology		3				3							3				
LIFS	2070	Introduction to Biotechnology		3				3							3				
LIFS	2080	Plant Biology		3				3							3				
LIFS	2210	Biochemistry I		3				(5)							0				
LIFS	2220	Biochemistry II		3					3						3				
LIFS	3150	Biostatistics		3						3					3				
LIFS		Note: LIFS4983 OR (LIFS4973 AND LIFS4983) OR (SOE4500 AND LIFS4983) [Students following RE Track can only use SOE4500 AND LIFS4983 to fulfill the requirement.]		3-7															
LIFS	4983	Biotechnology Capstone Project		3									[8]	3	3				
LIFS	4973	Biotechnology Project Research I		3															
LIFS	4983	Biotechnology Project Research II		4															
SOE	4500	RE Research Project II		3															
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics		3	(3)										0				
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3		(3)									0				
CHEM	1051	Laboratory for General Chemistry A		1	1										1				
CHEM	1052	Laboratory for General Chemistry B		1		1									1				
CHEM		Note: CHEM 2111 OR CHEM 2311		3															
CHEM	2111	Fundamentals of Organic Chemistry		3					3						3				
CHEM	2311	Analytical Chemistry		3															
CHEM		Note: CHEM1155 OR CHEM2355		1															
CHEM	2155	Fundamental Organic Chemistry Laboratory		1						1					1				
CHEM	2355	Fundamental Analytical Chemistry Laboratory		1															
LIFS/BTEC/ OCEC/PHYS/ BTECON/ENG		Biotechnology Electives (Courses from the specified elective list: 15-18 Students following RE Track are required to take a minimum of 15 credits, while others a minimum of 18 credits. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)		15-18						3		3	6	3	15				
Applied Bioscience Track/ Entrepreneurship Track																			
LIFS/ CENG/ SOE		Students should follow one of the tracks and complete all requirements as specified: Applied Bioscience Track OR Entrepreneurship Track		15-19						3	4	3	3	3	3	19	Please refer to the curriculum of BIOT for details of the requirements of each track.		
Required credits for School / Major Pre-requisite Requirements				65-70	1	2	3	6	9	11	3	6	8	9	69				
BBA in Economics																			
School Requirements																			
ACCT	2010	Principles of Accounting I		3	3										3				
ACCT	2200	Principles of Accounting II		3						3					3				
ECON		Note: ECON 2103 OR ECON 2113		3															
ECON	2103	Principles of Microeconomics		3				3											
ECON	2113	Microeconomics		3															
ECON		Note: ECON 2123 OR ECON 3123		3															
ECON	2123	Macroeconomics		3						3					3				
ECON	3123	Macroeconomic Theory I		3															
FINA	2303	Financial Management		3				3							3				
ISOM	2010	Introduction to Information Systems		3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021, COMP 1022P or COMP 1023			
ISOM	2020	Coding for Business		1	-	-	-	-	-	-	-	-	-	-	0	Waived for ODP students if they have taken and passed COMP 1021, COMP 1022P or COMP 1023			
ISOM	2030	Business Statistics		3				3							3				
ISOM	2040	Introduction to Business Analytics		1											1				
ISOM	2700	Operations Management		3							3	1			3				
MARK	2120	Marketing Management		3				3							1				
MGMT	2010	Business Ethics and the Individual		2				2							2				
MGMT	2110	Organizational Behavior		3				3							2				
MGMT	2130	Business Ethics and Social Responsibility		2										2	2				
MATH		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023		3-4															
MATH	1003	Calculus and Linear Algebra		3															
MATH	1013	Calculus II		3	(3)										0	ODP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees			
MATH	1020	Accelerated Calculus		4															
MATH	1023	Honors Calculus I		3															
Required Credits for School Requirements				39-40	3	5	6	6	3	3	3	1	0	2	32				
Major Required Courses and Electives																			
ECON	3014	Managerial Microeconomics		4					4						4				
ECON	3024	Managerial Macroeconomics		4						4					4				
ECON	3034	Introduction to Econometrics		4							4				4				
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)		11								4	4	3	11				
Required Credits for Major Required Courses and Electives				23	0	0	0	0	4	4	4	4	4	3	23				
Additional Requirement for Dual Degree																			
Requirements for Dual Degree Program																			
TEMG	1011	TBM Professional Activities I		0	0	0	0								0				
TEMG	1012	TBM Professional Activities II		0			0	0							0				
TEMG	1013	TBM Professional Activities III		0					0	0					0				
TEMG	1014	TBM Professional Activities IV		0							0	0			0				
TEMG	1015	TBM Professional Activities V		0									0	0	0				
TEMG	3950	TBM Case Analysis and Product Innovation		3			3								3				
TEMG	4950	TBM Corporate Consulting Project		3-5					4						4				
Required Credits for Additional Requirements				7	0	3	0	0	4	0	0	0	0	0	7				
University Common Core Requirements																			
CORE	C3 - C9	U CORE - Others		21					3			9	6	3		21			
CORE	C1 & C2	U CORE - English Language		6	3	3									6				
BM&M	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness		3	1	2									3				
Sub-total for University CORE				30	4	5	0	3	7	0	0	9	6	3	0	30			
Term total (see above credits)																			
176#																			
176																			