

School:			School of Science and School of Business Management			Declaration of Being major		Declaration of BBA major		Student's Pathway										Remarks	
Program:			Dual Degree Program (BSc in Biotechnology and BBA in Finance)																		
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	Sub-total						
BSc in Biotechnology																					
School Requirements																					
COMP	1021	New: COMP1021 OR COMP1022P OR COMP2011		3																	
COMP	1022P	Introduction to Computer Science		3																	
COMP	1022	Introduction to Computing with Java		3																	
COMP	1022	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/SCES, MATH/DASC and PHYS; and (ii) 1 laboratory course.)		22-26																	
CHEM	1008	Introductory Chemistry		3																	
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics		3																	
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3																	
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	1901*	Environmental Science		3																	
LIFS	1901B	General Biology I (B)		3																	
LIFS	1902B	General Biology II (B)		3																	
LIFS	1903	Laboratory for General Biology I		3																	
LIFS	1904	Laboratory for General Biology II		1																	
LIFS	1905	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													
MATH	1013	Calculus I		3																	
MATH	1014	Calculus II		3																	
MATH	1020	Accelerated Calculus		3																	
MATH	1023	Honors Calculus I		3																	
MATH	1024	Honors Calculus II		3																	
MATH	2011	Introduction to Multivariable Calculus		3																	
MATH	2023	Multivariable Calculus		3																	
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		3																	
PHYS	1114	General Physics II		3																	
PHYS	1115	Laboratory for General Physics II		1																	
PHYS	1116	Honors General Physics I		3																	
PHYS	1117	Honors General Physics II		3																	
PHYS	1118	Honors General Physics III		3																	
PHYS	1119	Honors General Physics IV		3																	
PHYS	1120	Honors General Physics V		3																	
PHYS	1121	Honors General Physics VI		3																	
PHYS	1122	Honors General Physics VII		3																	
PHYS	1123	Honors General Physics VIII		3																	
PHYS	1124	Honors General Physics IX		3																	
Required credits for School / Major Pre-requisite Requirements				22-26	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)																
LIFS	1904	Laboratory for General Biology II		1		1															
LIFS	2040	Cell Biology		3				3													
LIFS	2070	Introduction to Biotechnology		3				3													
LIFS	2080	Plant Biology		3					3												
LIFS	2120	Biochemistry I		3					(3)												
LIFS	2220	Biochemistry II		3							3										
LIFS	2140	Bioinformatics		3								3									
LIFS	2140	New: LIFS4983 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) (Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfil the requirement.)		3-7																	
LIFS	4983	Biotechnology Capstone Project		3																	
LIFS	4973	Biotechnology Project Research I		3																	
LIFS	4983	Biotechnology Project Research II		4																	
SCIE	4500	IRE Research Project II		3																	
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics		3	(3)																
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3																	
CHEM	1051	Laboratory for General Chemistry A		1	1																
CHEM	1052	Laboratory for General Chemistry B		1		1															
CHEM	2111	New: CHEM 2111 OR CHEM 2111		3																	
CHEM	2111	Fundamentals of Organic Chemistry		3																	
CHEM	2111	Analytical Chemistry		3																	
CHEM	2155	New: CHEM2155 OR CHEM2355		1																	
CHEM	2355	Fundamental Organic Chemistry Laboratory		1																	
CHEM	2355	Fundamental Analytical Chemistry Laboratory		1																	
LIFS/SCIE/BIEN/ENG	1905	Students following IRE 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(s).		15-18																	
LIFS/SCIE/BIEN/ENG	1905	Students following IRE 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(s).		15-18																	
Applied Bioscience Track/ Entrepreneurship Track																					
LIFS/SCIE/BIEN/ENG		Students should follow one of the tracks and complete all requirements as specified. Applied Bioscience Track OR Entrepreneurship Track.		15-19																	
LIFS/SCIE/BIEN/ENG		Students should follow one of the tracks and complete all requirements as specified. Applied Bioscience Track OR Entrepreneurship Track.		15-19	1	2	3	6	9	11	3	6	3	0	59						
Required credits for School / Major Pre-requisite Requirements				16-19	1	2	3	6	9	11	3	6	3	0	59						
BBA in Finance																					
School Requirements																					
ACCT	2010	Principles of Accounting I		3	3																
ACCT	2020	Principles of Accounting II		3																	
ECON	2103	New: ECON 2103 OR ECON 2113		3																	
ECON	2113	Principles of Microeconomics		3																	
ECON	2113	Microeconomics		3																	
ECON	2123	New: ECON 2123 OR ECON 3123		3																	
ECON	3123	Microeconomics Theory I		3																	
FINA	2303	Financial Management		3																	
FINA	2303	Financial Management		3																	
ISOM	3010	Introduction to Information Systems		3	-	-	-	-	-	-	-	-	-	-							
ISOM	3020	Coding for Business		1	-	-	-	-	-	-	-	-	-	-							
ISOM	2000	Business Statistics		3																	
ISOM	2000	Introduction to Business Analytics		1																	
ISOM	2700	Operations Management		3																	
MARK	2120	Marketing Management		3																	
MARK	2120	Marketing Management		3																	
MGMT	2010	Business Ethics and the Individual		2																	
MGMT	2110	Organizational Behavior		3																	
MGMT	2130	Business Ethics and Social Responsibility		2																	
MATH	1003	Calculus and Linear Algebra		3-4																	
MATH	1013	Calculus I		3																	
MATH	1020	Accelerated Calculus		4																	
MATH	1023	Honors Calculus I		3																	
Required Credits for School Requirements				35-45	6	5	6	6	3	3	3	1	6	2	36						
Major Required Courses and Electives																					
FINA	3001	Join Skills for Finance Professionals (A)		1																	
FINA	3103	Intermediate Investments		3																	
FINA	3203	Derivative Securities		3																	
FINA	3303	Intermediate Corporate Finance		3																	
FINA	3810	Bloomberg Market Concepts Certification		6																	
FINA	3810	New: ACCT 3010 AND ACCT 3020 OR ACCT 3030		3-4																	
ACCT	3010	Financial Accounting I		3																	
ACCT	3020	Financial Accounting II		3																	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors		3																	
ISOM	3230	New: ISOM 3230 OR ISOM 3400		3																	
ISOM	3400	Business Programming in VBA: Business Applications Development in Python		3																	
FINA	3900	FINA 3900-level or above Electives (they 3 courses of the subject and level as specified)		9																	
Required Credits for Major Required Courses and Electives				35-39	0	0	0	0	4	6	6	3	3	3	25						
Additional Requirement for Dual Degree																					
Requirements for Dual Degree Program																					
TEMG	1011	T&M Professional Activities I		0	0	0															
TEMG	1012	T&M Professional Activities II		0																	
TEMG	1013	T&M Professional Activities III		0																	
TEMG	1014	T&M Professional Activities IV		0																	
TEMG	1015	T&M Professional Activities V		0																	
TEMG	3050	T&M Case Analysis and Product Innovation		3																	
TEMG	4990	T&M Corporate Consulting Project		3-5																	
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	4	0	0	7						
University Common Core Requirements																					
CORE	C1 - C3	U CORE - Others		21																	
CORE	C1 & C2	U CORE - English Language		6	3	3															
HEAW	1905	Behavioral Foundations of University Education: Habits, Mindsets and Wellness		3																	
Sub-total for University CORE				30	4	5	0	3	0	0	6	3	6	3	30						
Term load (sec: free credits)																					
21 16 16 16 16 16 20 16 17 16 17 161																					