

<< Declaration of BEng major << Declaration of BBA major

School:		School of Science and School of Business Management		Student's Pathway												Remarks
Program:		Dual Degree Program (BSc in Biotechnology and BBA in Finance)		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		
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List		Credits												
BSc in Biotechnology																
School Requirements																
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011		3-4												
COMP	1022P	Introduction to Computer Science		3												
COMP	2011	Introduction to Computing with Java Programming with C++		4			3								3	
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/OCES, MATH and PHYS; and (ii) 1 laboratory course.]				22-25												
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	1030**	Environmental Science		3												
LIFS	1901@	General Biology I @		3												
LIFS	1902@	General Biology II @		3												
LIFS	1903	Laboratory for General Biology I		3												
LIFS	1904	Laboratory for General Biology II		1												
LIFS	1930	Nature of Life Sciences		1												
LIFS	2210	Biochemistry I		3												
MATH	1012	Calculus IA		3	10											
MATH	1013	Calculus IB		4		3										
MATH	1014	Calculus II		3												
MATH	1020	Accelerated Calculus		3			6									
MATH	1023	Honors Calculus I		4												
MATH	1024	Honors Calculus II		3												
MATH	2023	Multivariable Calculus		3												
MATH	2121	Linear Algebra		4												
MATH	2131	Honors in Linear and Abstract Algebra I		4												
OCES	1001	The Earth as a Blue Planet		3												
OCES	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											25	
Major Requirements																
Major Required Courses and Electives																
LIFS	1903	Laboratory for General Biology I		1	(1)										0	
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			(3)								0	
LIFS	2220	Biochemistry II		3					3						3	
LIFS	3150	Biostatistics		3					3						3	
Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]				3-7												
LIFS	4963	Biotechnology Capstone Project		3							[3]		3		3	
LIFS	4973	Biotechnology Project Research I		4												
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)										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	2111	Note: CHEM 2111 OR CHEM 2311		3											3	
CHEM	2311	Fundamentals of Organic Chemistry		3				3							3	
CHEM	2155	Note: CHEM2155 OR CHEM2355		1											1	
CHEM	2355	Fundamental Organic Chemistry Laboratory		1					1						1	
Biotechnology Electives (Courses from the specified elective list; 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.)				15-18						3		3	6	3	15	
Applied Bioscience Track/ Entrepreneurship Track																
LIFS/ CENG/ SCIE		Students should follow one of the tracks and complete all requirements as specified: Applied Bioscience Track OR Entrepreneurship Track		18-19				3	4	3	3	3	3	3	19	
Required credits for Major Required Courses and Electives				68-76											59	
BBA in Finance																
School Requirements																
ACCT	2010	Principles of Accounting I		3	3										3	
ACCT	2200	Principles of Accounting II		3					3						3	
ECON	2103	Note: ECON 2103 OR ECON 2113		3											3	
ECON	2113	Principles of Microeconomics		3			3								3	
ECON	3123	Note: ECON 2123 OR ECON 3123		3											3	
ECON	3123	Macroeconomics		3				3							3	
FINA	2303	Financial Management		3											3	
FINA 2303 is a major pre-requisite																
ISOM	2010	Introduction to Information Systems		3											0	
Substituted by COMP 1021/ 1022P/ 2011																
ISOM	2020	Coding for Business		1											0	
Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P																
ISOM	2500	Business Statistics		3			3								3	
ISOM	2600	Introduction to Business Analytics		1											1	
ISOM	2700	Operations Management		3											3	
MARK	2120	Marketing Management		3				3							3	
MGMT	2010	Business Ethics and the Individual		2			2								2	
MGMT	2110	Organizational Behavior		3					3						3	
MGMT	2130	Business Ethics and Social Responsibility		2									2		2	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023		3-4												
MATH	1012	Calculus and Linear Algebra		3												
MATH	1013	Calculus IA		4	(3)										0	
MATH	1020	Calculus IB		3												
MATH	1023	Accelerated Calculus		4												
MATH	1023	Honors Calculus I		3												
Required credits for School Requirements				39-40											32	
Major Requirements																
Major Required Courses and Electives																
FINA	3001	Key Skills for Finance Professionals (A)		1					1						1	
FINA	3103	Intermediate Investments		3					3						3	
FINA	3203	Derivative Securities		3						3					3	
FINA	3303	Intermediate Corporate Finance		3							3				3	
FINA	3810	Bloomberg Market Concepts Certification		0					0						0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030		3-6											3	
ACCT	3020	Financial Accounting I		3											3	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors		3											3	
ISOM	3230	Note: ISOM 3230 OR ISOM 3400		3											3	
ISOM	3400	Business Programming in VBA		3						3					3	
ISOM	3400	Business Applications Development in Python		3											3	
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)		9								3	3	3	9	
Required credits for Major Required Courses and Electives				25-28											25	
Additional Requirements																
Requirements for Dual Degree Program																
Required Courses																
TEMG	1010	T&M Professional Activities		0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	T&M Case Analysis and Product Innovation		3			3								3	
TEMG	4950	T&M Corporate Consulting Project		3-5					4						4	
Required credits for Additional Requirements				7											7	
University CORE																
CORE	C3 - C9	U CORE - Others		21						3		6	9	3	21	
CORE	C1 & C2	U CORE - English Language		6	3	3									6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness		3	1	2									3	
Sub-total for University CORE				30											30	
					18	18	18	18	20	20	18	19	15	14		