

School:		School of Science and School of Business Management		← Declaration of BEng major		← Declaration of BBA major		Student's Pathway										Remarks
Program:	Course Offering Dept. (course code and ID)	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	Year 6 Fall	Year 6 Spring		
BSc in Biotechnology																		
School Requirements																		
COMP	1021	1021	New: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3			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	1022P	Introduction to Computing with Java	3														
SCCI			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/DASC and PHYS; and (ii) 1 laboratory course.)	22-26														
CHEM	1008	1008	Introductory Chemistry	3												LIFS1903 & LIFS1902 are Major Pre-requisite Students are recommended to take CHEM1011, CHEM1012, LIFS1903, LIFS2210 and MATH1013 to satisfy the requirements of both BEng and BBA degrees		
CHEM	1011	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3														
CHEM	1012	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3														
CHEM	1051	1051	Laboratory for General Chemistry A	1														
CHEM	1052	1052	Laboratory for General Chemistry B	1														
DASC	2010	2010	Calculus for Data Analytics in Science	3														
LIFS	1903*	1903*	Environmental Science	3														
LIFS	1901(B)	1901(B)	General Biology I (B)	3														
LIFS	1903(B)	1903(B)	General Biology II (B)	3														
LIFS	1904	1904	Laboratory for General Biology I	3														
LIFS	1905	1905	Laboratory for General Biology II	3														
LIFS	1930	1930	Nature of Life Sciences	1														
LIFS	2210	2210	Biochemistry I	4														
MATH	1005	1005	Calculus and Statistics	4														
MATH	1006	1006	Calculus, Vectors, and Matrices	4														
MATH	1013	1013	Calculus I	3	10	3	6	3										
MATH	1014	1014	Calculus II	3														
MATH	1020	1020	Accelerated Calculus	4														
MATH	1023	1023	Honors Calculus I	3														
MATH	1024	1024	Honors Calculus II	3														
MATH	2011	2011	Introduction to Multivariable Calculus	3														
MATH	2023	2023	Multivariable Calculus	4														
MATH	2111	2111	Matrix Algebra and Applications	4														
MATH	2121	2121	Linear Algebra	4														
MATH	2131	2131	Honors in Linear and Abstract Algebra I	4														
OCES	1001	1001	The Earth as a Blue Planet	3														
OCES	1010	1010	Principles and Applications of Environmental Science	3														
PHYS	1101	1101	Introductory Physics	4														
PHYS	1111	1111	General Physics I	3														
PHYS	1112	1112	General Physics I with Calculus	3														
PHYS	1113	1113	Laboratory for General Physics I	1														
PHYS	1114	1114	General Physics II	3														
PHYS	1115	1115	Laboratory for General Physics II	1														
PHYS	1122	1122	Honors General Physics I	3														
PHYS	1124	1124	Honors General Physics II	3														
Required Credits for School / Major Pre-requisite Requirements				25-26	16	3	9	3									25	
Major Required Courses and Electives																		
LIFS	1903	1903	Laboratory for General Biology I	1	(1)													Note: Students with level 3 or above in H2CDE to Biology are exempted from taking LIFS 1903
LIFS	1904	1904	Laboratory for General Biology II	1		1												
LIFS	2040	2040	Cell Biology	3				3										
LIFS	2070	2070	Introduction to Biotechnology	3				3									3	
LIFS	2080	2080	Plant Biology	3				3										
LIFS	2210	2210	Biochemistry I	3			(3)											
LIFS	2220	2220	Biochemistry II	3					3								3	
LIFS	3160	3160	Bioethics	3						3								
			New: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) (Students following RE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.)	3-7														
LIFS	4963	4963	Biotechnology Capstone Project	3									(3)	3	3		6	
LIFS	4973	4973	Biotechnology Project Research I	3														
LIFS	4983	4983	Biotechnology Project Research II	4														
SCIE	4500	4500	RE Research Project II	3													1	
CHEM	1011	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3	(3)			(3)										
CHEM	1012	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3														
CHEM	1051	1051	Laboratory for General Chemistry A	1		1											1	
CHEM	1052	1052	Laboratory for General Chemistry B	1			1											
			New: CHEM 2111 OR CHEM 2311	3					3									
CHEM	2111	2111	Fundamentals of Organic Chemistry	3													3	
CHEM	3111	3111	Analytical Chemistry	3														
			New: CHEM3155 OR CHEM3555	1														
CHEM	2155	2155	Fundamental Organic Chemistry Laboratory	1					1								1	
CHEM	2355	2355	Fundamental Analytical Chemistry Laboratory	1														
			New: CHEM3155 OR CHEM3555	1														
LIFS/OCES/PHYS/BIENV/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		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	19			Please refer to the curriculum of BIOT for details of the requirements of each track.
Required Credits for School / Major Pre-requisite Requirements				88-94	1	2	3	6	9	11	3	6	9	9	59			
BBA in Global Business																		
School Requirements																		
ACCT	2010	2010	Principles of Accounting I	3	3												3	
ACCT	2200	2200	Principles of Accounting II	3						3								
			New: ECON 2103 OR ECON 2113	3														
ECON	2103	2103	Principles of Microeconomics	3				3									3	
ECON	2113	2113	Macroeconomics	3														
			New: ECON 2123 OR ECON 3123	3														
ECON	2123	2123	Macroeconomics	3					3								3	
ECON	3123	3123	Macroeconomics Theory I	3														
FINA	2303	2303	Financial Management	3														
ISOM	2010	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	-	3	
			New: COMP 1021, COMP 1022P or COMP 1023 are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1021, COMP 1022P or COMP 1023 instead of ISOM 2010.															
ISOM	2020	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	-	-		
ISOM	2050	2050	Business Statistics	3			3										3	
ISOM	2060	2060	Introduction to Business Analytics	1							1							
ISOM	2720	2720	Operations Management	3							3							
MARK	2120	2120	Marketing Management	3				3									3	
MGMT	2010	2010	Business Ethics and the Individual	2		2												
MGMT	2110	2110	Organizational Behavior	3			3										2	
MGMT	2130	2130	Business Ethics and Social Responsibility	2											2	2		
			New: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4													0	
MATH	1003	1003	Calculus and Linear Algebra	3														
MATH	1013	1013	Calculus I	3			(3)											
MATH	1020	1020	Accelerated Calculus	4														
MATH	1023	1023	Honors Calculus I	3														
Required Credits for School Requirements				26-34	5	5	6	6	3	5	3	1	5	2	35			
Major Required Courses and Electives																		
GBUS	1000	1000	Global Leadership Development	0					0	0	0	0	0	0	0	0	0	
GBUS	2010	2010	Global Business Analysis	3						3								
GBUS/BBMT			New: GBUS 2040 OR BBMT 2100-2110	1-4							1	(1)					1	
GBUS	2040	2040	Environmental, Social, and Governance (ESG) Corporate Project	1														
BBMT	2100-2110	2100-2110	Community Services Project	1-4													4	
GBUS/ISOM			New: GBUS 3030 OR ISOM 4780	3-4														
GBUS	3030	3030	Global Business Case Studies	4							3	(3)					3	
ISOM	4780	4780	Integrated Planning and Execution	3														
GBUS	4910	4910	Capstone Project	4									4	(4)	4		4	
GBUS			Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill requirements of an additional major in ISBM may not be counted towards this elective requirement.)	15								6	3	6	15		DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees	
Required Credits for Major Required Courses and Electives				26-35	0	0	0	0	0	0	4	3	6	7	6	28		
Additional Requirement for Dual Degree																		
Requirements for Dual Degree Program																		
TEMO	1011	1011	TSM Professional Activities I	0	0	0												0
TEMO	1012	1012	TSM Professional Activities II	0			0	0										
TEMO	1013	1013	TSM Professional Activities III	0					0	0								
TEMO	1014	1014	TSM Professional Activities IV	0							0	0					0	
TEMO	1015	1015	TSM Professional Activities V	0									0	0	0	0		
TEMO	3650	3650	TSM Case Analysis and Product Innovation	3		3												
TEMO	4900	4900	TSM Corporate Challenge Project	3-5									4				4	
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	0	4	0	0	7		
University Common Core Requirement																		
CORE	C1 - C9	U CORE - Others	21						3	6	9		3			21	To graduate, students should complete ALL requirements as specified for DDP.	
CORE	C1 & C2	U CORE - English Language	6	3	3											6		
H2AA	3905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2											3		
Sub-total for University CORE				30	4	5	0	3	3	6	0	9	0	3	0	30		
Term load (per credit)																		
18 18																		