

<< 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 Global Business)		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				3							
COMP	2011	Introduction to Computing with Java		4										3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
SSCI		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	10										
MATH	1012	Calculus IA		3		3		6							
MATH	1013	Calculus IB		4											
MATH	1014	Calculus II		3											
MATH	1020	Accelerated Calculus		3											
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											
Major Requirements															
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	2210	Biochemistry I		3				(3)							
LIFS	2220	Biochemistry II		3						3					
LIFS	3150	Biostatistics		3						3					
LIFS	4963	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	4973	Biotechnology Capstone Project		3						[3]		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				(3)							
CHEM	1051	Laboratory for General Chemistry A		1	1										
CHEM	1052	Laboratory for General Chemistry B		1		1									
CHEM	2111	Note: CHEM 2110 OR CHEM 2311		3											
CHEM	2311	Fundamentals of Organic Chemistry Analytical Chemistry		3				3							
CHEM	2155	Note: CHEM2155 OR CHEM2355		1											
CHEM	2355	Fundamental Organic Chemistry Laboratory		1						1					
LIFS/BIOPH/BTEC/OCES/PHYS/BIEN/CENG		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	19
Required credits for Major Required Courses and Electives				68-76											
BBA in Global Business															
School Requirements															
ACCT	2010	Principles of Accounting I		3	3										
ACCT	2200	Principles of Accounting II		3						3					
ECON	2103	Note: ECON 2103 OR ECON 2113		3					3						
ECON	2113	Principles of Microeconomics		3											
ECON	2123	Note: ECON 2123 OR ECON 3123		3											
ECON	3123	Macroeconomics		3				3							
FINA	2303	Financial Management		3				3							
ISOM	2010	Introduction to Information Systems		3											Substituted by COMP 1021/1022P/2011
ISOM	2020	Coding for Business		1											Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P
ISOM	2500	Business Statistics		3											
ISOM	2600	Introduction to Business Analytics		1											
ISOM	2700	Operations Management		3						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										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)										
MATH	1020	Accelerated Calculus		4											
MATH	1023	Honors Calculus I		3											DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
Required credits for School Requirements				39-40											
Major Requirements															
Major Required Courses and Electives															
GBUS	1000	Global Leadership Development		0					0	0	0	0	0	0	0
GBUS	2010	Global Business Analysis		3						3					
GBUS/SBMT		Note: GBUS 2020 OR GBUS 2040 OR SBMT 2100-2110		1-4											
GBUS	2020	Public Service Project		1						1	[1]				
GBUS	2040	Environmental, Social, and Governance (ESG) Corporate Project		1											
SBMT	2100-2110	Community Services Project		4											
GBUS/ISOM		Note: GBUS 3030 OR ISOM 4780		3-4											
GBUS	3030	Global Business Case Studies		4						3	[3]				
ISOM	4780	Integrated Planning and Execution		3											
GBUS	4910	Capstone Project		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 SBM may not be counted towards this elective requirement.)		15								6	3	6	15
Required credits for Major Required Courses and Electives				26-30											
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
TEMG	4950	T&M Corporate Consulting Project		3-5						4					4
Required credits for Additional Requirements				7											
University CORE															
CORE	C3 - C9	U CORE - Others		21				3	3			9	6		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											
					18	18	18	18	18	18	18	18	18	18	17
					179##										
					<< Declaration of BEng major << Declaration of BBA major										

Notes:

@ Course that students need to complete before enrolling into respective major/programs.

() indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

--- denotes the course/requirement is either waived or