

School:		School of Science and School of Business Management		Student's Pathway											Remarks
Program:		Dual Degree Program (BSc in Biotechnology and BBA in Marketing)		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															
SCIE	1000	Science School Induction		0	0	0								0	
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science		3-4			3							3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computing with Java		3											
COMP	2011	Programming with C++		4											
LANG	2010	English for Science I		3										0	Waived for DDP students
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	1004	Chemistry in Everyday Life		3											
CHEM	1010	General Chemistry IA		3											
CHEM	1020	General Chemistry IB		3											
CHEM	1030	General Chemistry II		3											
CHEM	1050	Laboratory for General Chemistry I		1											
CHEM	1055	Laboratory for General Chemistry II		1											
LIFS	1901@	General Biology I @		3											
LIFS	1902@	General Biology II @		3											LIFS 1901 & LIFS 1902 are Major Pre-requisite
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		6		3					22	Students are recommended to take CHEM1010, CHEM1030, LIFS1903, LIFS2210 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
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	1030	Environmental Science		3											
PHY	1001	Physics and the Modern Society		3											
PHY	1111	General Physics I		3											
PHY	1112	General Physics I with Calculus		3											
PHY	1113	Laboratory for General Physics I		1											
PHY	1114	General Physics II		3											
PHY	1115	Laboratory for General Physics II		1											
PHY	1312	Honors General Physics I		3											
PHY	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	3060	Microbiology		3					3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques		3					3					3	
LIFS	3140	General Genetics		4						4				4	
LIFS	4150	Plant Biotechnology		3							3			3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology		3						3				3	
LIFS	4963	Biotechnology Capstone Project		3								(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	1010	Note: CHEM1010 OR CHEM1020 General Chemistry IA		3	(3)									0	
CHEM	1020	General Chemistry IB		3											
CHEM	1030	General Chemistry II		3			(3)							0	
CHEM	1050	Laboratory for General Chemistry I		1	1									1	
CHEM	1055	Laboratory for General Chemistry II		1		1								1	
CHEM	2110	Note: CHEM 2110 OR CHEM 2311 Organic Chemistry I		3				3						3	
CHEM	2311	Analytical Chemistry		3											
CHEM	2155	Note: CHEM2155 OR CHEM2355 Fundamental Organic Chemistry Laboratory		1					1					1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory		1											
CENG	1600	Biotechnology and Its Business Opportunities		3						3				3	
LANG	3024	Science Communication in English (Life Science)		3									3	3	
LIFS/ BIPH/ 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							6	6	3	15	
Required credits for Major Required Courses and Electives				62-70										56	
BBA in Marketing															
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 Principles of Microeconomics		3			3							3	
ECON	2113	Microeconomics		3											
ECON	2123	Note: ECON 2123 OR ECON 3123 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/ 1022P/ 2011
ISOM	2020	Coding for Business		1										0	Waived for DDP students if they have taken and passed COMP 1021 or COMP 1025P
ISOM	2500	Business Statistics		3			3							3	
ISOM	2600	Introduction to Business Analytics		1				1						1	
ISOM	2700	Operations Management		3					3					3	
MARK	2120	Marketing Management		3			3							3	MARK 2120 is a major pre-requisite
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	
SBMT	1111	Business Student Induction		0										0	Waived for DDP students
LABU	2040	Business Case Analyses		0										0	Waived for DDP students
LABU	2060	Effective Communication in Business		3								3		3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra		3-4											
MATH	1012	Calculus IA		4	(3)										
MATH	1013	Calculus IB		3											
MATH	1020	Accelerated Calculus		4											
MATH	1023	Honors Calculus I		3											
Required credits for School Requirements				43-44										35	
Major Requirements															
Major Required Courses and Electives															
MARK	3220	Marketing Research		4					4					4	
MARK	3420	Consumer Behavior		4					4					4	
MARK	4210	Strategic Marketing		4									4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)		12						4	4	4		12	
Required credits for Major Required Courses and Electives				24										24	
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	
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 - C12	U CORE - Others		30	3	3			3	3	3	9	3	3	30
CORE	C1 & C2	U CORE - English Language		6	3	3								6	
Sub-total for University CORE				36										36	

17	19	18	19	20	17	17	19	19	18
183##									

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 substituted.
 ## To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG