

School:		School of Science and School of Business Management			<< Declaration of major												
Program:		Dual Degree Program (BSc in Biotechnology and BBA in General Business Management)			Student's Pathway												
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year													Sub-total
				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		
<b>BSc in Biotechnology</b>																	
<b>School Requirements</b>																	
SCIE	1000	Science School Induction	0	0	0											0	
COMP	1021	NOE: COMP1021 OR COMP1022P OR COMP1022U OR COMP2011	3													3	
COMP	1022P	Introduction to Computer Science	3													3	
COMP	1022Q	Introduction to Computing with Java	3					3								3	
COMP	2011	Introduction to Computing with Excel VBA Programming with C++	4													4	
LANG	2010	English for Science I	3								3					3	
SCSI		Science Foundation courses [B 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 discipline: CHEM, LIFS, MATH and PHYS; and (ii) 1 laboratory course.]	22-29														
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	1030	Environmental Science	3														
LIFS	1901*	General Biology I*	3														
LIFS	1902**	General Biology II**	3														
LIFS	1903	Laboratory for General Biology I	1														
LIFS	1904	Laboratory for General Biology II	1														
LIFS	1930	Nature of Life Sciences	3														
LIFS	2210	Biochemistry I	4		10	3	6	3								22	
MATH	1012	Calculus IA	4														
MATH	1013	Calculus IB	3														
MATH	1014	Calculus II	3														
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
MATH	1024	Honors Calculus II	3														
MATH	2023	Multivariable Calculus	4														
MATH	2121	Linear Algebra	4														
MATH	2131	Honors in Linear and Abstract Algebra I	4														
<b>Required credits for School / Major Pre-requisite Requirements</b>				25-29													28
<b>Major Requirements</b>																	
<b>Major Required Courses and Electives</b>																	
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	3080	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	
IRE		NOE: CHEM4001 OR CHEM4002 OR CHEM4003 OR CHEM4004 OR CHEM4005 OR CHEM4006 OR CHEM4007 OR CHEM4008 OR CHEM4009 OR CHEM4010 OR CHEM4011 OR CHEM4012 OR CHEM4013 OR CHEM4014 OR CHEM4015 OR CHEM4016 OR CHEM4017 OR CHEM4018 OR CHEM4019 OR CHEM4020	3*														
*Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.																	
LIFS	4963	Biotechnology Capstone Project	3										[3]		3	3	
LIFS	4973	Biotechnology Project Research I	3													3	
LIFS	4983	Biotechnology Project Research II	4													4	
SCIE	4500	IRE Research Project II	3													3	
CHEM	1010	NOE: CHEM1010 OR CHEM1020	3	(3)												0	
CHEM	1020	General Chemistry IA	3													0	
CHEM	1030	General Chemistry IB	3													0	
CHEM	1050	Laboratory for General Chemistry I	1		1											1	
CHEM	1055	Laboratory for General Chemistry II	1		1											1	
CHEM	2110	NOE: CHEM2110 OR CHEM 2311	3													3	
CHEM	2311	Organic Chemistry I	3						3							3	
CHEM	2355	NOE: CHEM2355 OR CHEM2356	3													3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1							1						1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1													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/BIEN/ENG		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	
<b>Required credits for Major Required Courses and Electives</b>				62-70													56
<b>BBA in General Business Management</b>																	
<b>School Requirements</b>																	
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						3	
ECON	2113	Principles of Microeconomics	3													3	
ECON	2123	Note: ECON 2123 OR ECON 3123	3								3					3	
ECON	3123	Microeconomics	3													3	
FINA	2303	Financial Management	3								3					3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	---	---	0	
ISOM	2020	Coding for Business	1								1					1	
ISOM	2500	Business Statistics	3				3									3	
ISOM	2600	Introduction to Business Analytics	3						1							1	
ISOM	2200	Operations Management	3							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	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	---	---	0	
LABU	2040	Business Case Analyses	3							3						3	
LABU	2080	Effective Communication in Business	3									3				3	
MATH	1003	Calculus and Linear Algebra	3													3	
MATH	1012	Calculus IA	4													4	
MATH	1013	Calculus IB	3	(3)												3	
MATH	1020	Accelerated Calculus	4													4	
MATH	1023	Honors Calculus I	3													3	
<b>Required credits for School Requirements</b>				43-44													39
<b>Major Requirements</b>																	
<b>Major Required Courses and Electives</b>																	
SB8M		SB8M Electives (Any 9 courses offered by the departments under SB8M, of which at least 4 courses are of 3000-level or above.)	29		3		6		3	7	3	7				29	
<b>Required credits for Major Required Courses and Electives</b>				29													29
<b>Additional Requirements</b>																	
<b>Requirements for Dual Degree Program</b>																	
<b>Required Courses</b>																	
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	2		2											2	
<b>Required credits for Additional Requirements</b>				2													2
<b>University CORE</b>																	
CORE	CS - C12	U CORE - Others	30	3	6					3	3	9	3	3		30	
CORE	C1 & C2	U CORE - English Language	6	3	3											6	
<b>Sub-total for University CORE</b>				36													36
				Term load (excl. free credits)													
				17    19    18    21    20    19    16    19    20    19													
				1988#													

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.  
 { } indicates the course overlapping with another requirement will not be necessarily counted towards the School Requirements.  
 --- 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 Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.