

<< 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 Management)			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 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	10	3	6	3							22	LIFS1901 & LIFS1902 are Major Pre-requisite Students are recommended to take CHEM1020, CHEM1030, LIFS1903, LIFS2210 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
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	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
LIFS	4630	Advanced Topics in Biotechnology	3								3			3	
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 I	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 I	1	1										1	
CHEM	1052	Laboratory for General Chemistry II	1		1									1	
CHEM	2110	Note: CHEM 2110 OR CHEM 2311	3						3					3	
CHEM	2311	Analytical Chemistry	3												
CHEM	2155	Note: CHEM2155 OR CHEM2355	1							1				1	
CHEM	2355	Fundamental Organic Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Note: LANG 3024 OR LANG 3027 (Students following IRE Track should take LANG 3027 to fulfill the requirement.)	3										3	3	
LANG	3027	Science Communication in English (Life Science)	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							3		3	6	3	15
Required credits for Major Required Courses and Electives															
			66-73											56	
BBA in Management															
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							3	
ECON	2113	Principles of Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123	3						3					3	
ECON	3123	Macroeconomics	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 COMP1021 or COMP 1029P
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	
MGMT	2010	Business Ethics and the Individual	2											2	
MGMT	2110	Organizational Behavior	3				3							3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
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	3-4												
MATH	1012	Calculus and Linear Algebra	3												
MATH	1013	Calculus IA	4												
MATH	1014	Calculus IB	4												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
Required credits for School Requirements															
			43-44											35	
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4											4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Human Resources Management	4						4						
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4										4	4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Judgement and Decision Making in Organizations	4												
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4											3	Students in the Consulting Option must take MGMT 4210 Students in the CSR Option must take MGMT 4210
MGMT	4220	Corporate Strategy	3							3					
MGMT		Entrepreneurship and Innovation	4												
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9									3	3	3	9 Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
Required credits for Major Required Courses and Electives															
			20-21											20	
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						3	9	3	3	21	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3									3	
Sub-total for University CORE															
			30											30	
173##															
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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):