

<< 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 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															
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011	3-4												
	1022P	Introduction to Computer Science	3			3								3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	2011	Introduction to Computing with Java 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	1008	Introductory Chemistry	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	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												
MATH	1013	Calculus IB	4	10	3	6	3							22	LIFS1901 & LIFS1902 are Major Pre-requisite
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	1010	Principles and Applications of Environmental Science	4												
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											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	2220	Biochemistry II	3					3						3	
LIFS	3150	Biostatistics	3					3						3	
		Note: LIFS4983 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	4963	Biotechnology Capstone Project	3							[3]		3		3	
LIFS	4973	Biotechnology Project Research I	4												
LIFS	4983	Biotechnology Project Research II	3												
SCIE	4500	IRE Research Project II	3												
CHEM	1010	Note: CHEM1010 OR CHEM1020	3	(3)										0	
CHEM	1020	General Chemistry IA	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	3					3						3	
CHEM	2311	Organic Chemistry I	3												
CHEM	2155	Note: CHEM2155 OR CHEM2355	1						1					1	
CHEM	2355	Fundamental Organic Chemistry Laboratory	1												
		Note: LANG3024 for students following the Applied Bioscience Track / Entrepreneurship Track OR LANG3027 for students following IRE Track													
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LANG	3027	Science Communication in English for Research Students (Chemistry, Life Science and Ocean 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	
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 Major Required Courses and Electives			62-70											62	
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	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	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	
LANG	2061	Note: LANG 2061 OR 2062 OR 3060	3									3		3	Non DDP-ECON students take ONLY a 3-credit of SBM-specific English course, in which they can choose from one of the three LANG courses (LANG 2061, LANG 2062, or LANG 3060).
LANG	2062	Professional Writing for the Workplace	3												
LANG	3060	Professional Speaking for the Workplace	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	1020	Calculus IB	3	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
MATH	1023	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			26-27											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	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			9	6	3	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											30	
				18	18	18	18	20	18	19	17	19	18		
				183##											

Notes:

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

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