

<< 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 Introduction to Computer Science	3-4												
COMP	1022P	Introduction to Computing with Java	3			3								3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
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												LIFS1901 & LIFS1902 are Major Pre-requisite Students are recommended to take CHEM1010, CHEM1030, LIFS1903, LIFS2210 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
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	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	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	3												
MATH	1023	Honors Calculus I	4												
MATH	1024	Honors Calculus II	4												
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	4												4
LIFS	4983	Biotechnology Project Research II	4												4
SCIE	4500	IRE Research Project II	3												3
CHEM	1010	Note: CHEM1010 OR CHEM1020 General Chemistry IA	3	(3)											0
CHEM	1020	General Chemistry IA	3												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												3
CHEM	2155	Note: CHEM2155 OR CHEM2355 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/ BIPIH/ 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			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												3
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3						3						3
ECON	3123	Macroeconomic Theory I	3												3
FINA	2303	Financial Management	3												3
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	---	0
ISOM	2020	Coding for Business	1	---	---	---	---	---	---	---	---	---	---	---	0
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										2
MGMT	2110	Organizational Behavior	3			3									3
MGMT	2130	Business Ethics and Social Responsibility	2									2			2
LABU	2040	Business Case Analyses	0	---	---	---	---	---	---	---	---	---	---	---	0
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												0
MATH	1012	Calculus IA	3	(3)											3
MATH	1013	Calculus IB	3												3
MATH	1020	Accelerated Calculus	4												4
MATH	1023	Honors Calculus I	3												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	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	
				17	19	18	19	17	17	17	16	19	18		
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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):

>> 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.