

<< 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 Economics)		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	3-4													
COMP	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	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	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	3	6	3							22	LIFS 1901 & LIFS 1902 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	
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	Note: LIFS4963 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	3													
LIFS	4983	Biotechnology Project Research II	4													
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 IB	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 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						3		3	6	3	15		
Required credits for Major Required Courses and Electives			62-70											56		
BBA in Economics																
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	Macroeconomic Theory I	3				3							3		
ISOM	2010	Financial Management	3													
ISOM	2020	Introduction to Information Systems	3											0	Substituted by COMP 1021/ 1022P/ 2011	
ISOM	2500	Coding for Business	1											0	Waived for DDP students if they have taken and passed COMP 1021 or COMP 1029P	
ISOM	2600	Business Statistics	3		3									3		
ISOM	2700	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		
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	3-4													
MATH	1012	Calculus and Linear Algebra	3													
MATH	1013	Calculus IA	4	(3)										0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees	
MATH	1020	Calculus IB	3													
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																
ECON	3014	Managerial Microeconomics	4						4					4		
ECON	3024	Managerial Macroeconomics	4						4					4		
ECON	3334	Introduction to Econometrics	4							4				4		
ECON	4670	Economics Research and Communication	0									0		0		
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11		
Required credits for Major Required Courses and Electives			23											23		
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 - 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			3													