

<< 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 Global Business)			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	Introduction to Computer Science		3-4												
COMP	1022P	Introduction to Computing with Java		3			3									3
COMP	2011	Programming with C++		4												
LANG	2010	English for Science I		3												0
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		3												
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		3												
MATH	2023	Multivariable Calculus		3												
MATH	2121	Linear Algebra		4												
MATH	2131	Honors in Linear and Abstract Algebra I		4												
UCAS	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
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	1010	General Chemistry IA		3	(3)											0
CHEM	1020	General Chemistry IB		3												0
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	Organic Chemistry I		3					3							3
CHEM	2311	Analytical Chemistry		3												
CHEM	2155	Fundamental Organic Chemistry Laboratory		1						1						1
CHEM	2355	Fundamental Analytical Chemistry Laboratory		1												
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	3	19
Required credits for Major Required Courses and Electives				62-70												62
BBA in Global Business																
School Requirements																
ACCT	2010	Principles of Accounting I		3	3											3
ACCT	2200	Principles of Accounting II		3						3						3
ECON	2103	Principles of Microeconomics		3				3								3
ECON	2113	Microeconomics		3												
ECON	2123	Macroeconomics		3					3							3
ECON	3123	Macroeconomic Theory I		3												
FINA	2303	Financial Management		3			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
LANG	2061	Professional Writing for the Workplace		3									3			3
LANG	2062	Professional Speaking for the Workplace		3												
LANG	3060	Advanced Academic Writing		3												
MATH	1003	Calculus and Linear Algebra		3-4												
MATH	1012	Calculus IA		4												
MATH	1013	Calculus IB		3	(3)											0
MATH	1020	Accelerated Calculus		4												
MATH	1023	Honors Calculus I		3												
Required credits for School Requirements				43-44												35
Major Requirements																
Major Required Courses and Electives																
GBUS	1000	Global Leadership Development		0					0	0	0	0	0	0	0	0
GBUS	2010	Global Business Analysis		3						3						3
GBUS	2020	Public Service Project		1							1	[1]				1
GBUS	2040	Environmental, Social, and Governance (ESG) Corporate Project		1												
GBUS/ISOM	3030	Global Business Case Studies		3-4							4	[3]				4
ISOM	4780	Integrated Planning and Execution		3												
GBUS	4910	Capstone Project		4									4	[4]		4
GBUS		Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill requirements of an additional major in SBM may not be counted towards this elective requirement.)		15								6	3	6		15
Required credits for Major Required Courses and Electives				26-27												27
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	6				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

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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.