

<< 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													
<b>BSc in Biotechnology</b>																
<b>School Requirements</b>																
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 Introduction to Computer Science	3-4													
COMP	1022P	Introduction to Computing with Java	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	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	4													
MATH	1013	Calculus IB	4	10	3	6	3									
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	Matrices in Linear and Abstract Algebra I	1													
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													
BHYS	1314	Honors General Physics II	3													
<b>Required credits for School / Major Pre-requisite Requirements</b>			25-29												25	
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
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	3													
LIFS	4983	Biotechnology Project Research II	4													
SCIE	4500	IRE Research Project II	3													
CHEM	1010	General Chemistry IA	3	(3)											0	
CHEM	1020	General Chemistry IB	3			(3)									0	
CHEM	1030	General Chemistry II	3													
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	Note: CHEM2155 OR CHEM2355 Fundamental Organic Chemistry Laboratory	1						1						1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1													
LANG	3024	Note: LANG3024 for students following the Applied Bioscience Track / Entrepreneurship Track OR LANG3027 for students following IRE Track	3										3		3	
LANG	3027	Science Communication in English (Life Science)	3													
LIFS/ BIPIH/ BTEC/ OCES/ 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	
<b>Applied Bioscience Track/ Entrepreneurship Track</b>																
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	
<b>Required credits for Major Required Courses and Electives</b>			62-70												62	
<b>BBA in Economics</b>																
<b>School Requirements</b>																
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	Principles of Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123 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	
ECON	3700	Writing as an Economist	3									3			3	
LANG	2062	Professional Speaking for the Workplace	3	-	-	-	-	-	-	-	-	-	-	-	0	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 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													
<b>Required credits for School Requirements</b>			43-44												35	
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
ECON	3014	Managerial Microeconomics	4						4						4	
ECON	3024	Managerial Macroeconomics	4							4					4	
ECON	3334	Introduction to Econometrics	4							4					4	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3		11	
<b>Required credits for Major Required Courses and Electives</b>			23												23	
<b>Additional Requirements</b>																
<b>Requirements for Dual Degree Program</b>																
<b>Required Courses</b>																
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	
<b>Required credits for Additional Requirements</b>			7												7	
<b>University CORE</b>																
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	
<b>Sub-total for University CORE</b>			30												30	

18 18 18 18 20 18 19 17 19 17  
 182##

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.