

<< 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													
COMP	1022P	Introduction to Computer Science	3			3										3
COMP	2011	Introduction to Computing with Java Programming with C++	4													
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.]	22-26													
CHEM	1008	Introductory Chemistry	3													
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3													
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3													
CHEM	1051	Laboratory for General Chemistry A	1													
CHEM	1052	Laboratory for General Chemistry B	1													
DASC	2010	Calculus for Data Analytics in Science	3													
LIFS	1030**	Environmental Science	3													
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	10	3	6	3									
LIFS	1930	Nature of Life Sciences	1													
LIFS	2210	Biochemistry I	3													
MATH	1012	Calculus IA	3													
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	1001	The Earth as a Blue Planet	3													
OCES	1010	Principles and Applications of Environmental Science	3													
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	1													
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	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										[3]	3		3
LIFS	4973	Biotechnology Capstone Project	3													
LIFS	4983	Biotechnology Project Research I	4													
LIFS	4983	Biotechnology Project Research II	4													
SCIE	4500	IRE Research Project II	3													
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3	(3)												0
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		(3)											0
CHEM	1051	Laboratory for General Chemistry A	1	1												1
CHEM	1052	Laboratory for General Chemistry B	1		1											1
CHEM	2111	Note: CHEM 2111 OR CHEM 2311	3					3								3
CHEM	2311	Fundamentals of Organic Chemistry	3													
CHEM	2155	Note: CHEM2155 OR CHEM2355	1						1							1
CHEM	2355	Fundamental Organic Chemistry Laboratory	1													
LIFS/ BIPH/ 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
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			68-76													59
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
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
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
MATH	1020	Accelerated Calculus	3													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			39-40													32
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	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	16	15			
				177##												

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.