

<< 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 General Business Management)			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	
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	3-4												
COMP	1022P	Introduction to Computer Science	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.]	22-25												
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												
LIFS	1930	Nature of Life Sciences	3												
LIFS	2210	Biochemistry I	3												
MATH	1012	Calculus IA	4	10	3	6	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												
MATH	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	3												
PHYS	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	2090	Plant Biology	3						3						3
LIFS	2210	Biochemistry I	3					(3)							0
LIFS	2220	Biochemistry II	3							3					3
LIFS	3150	Biostatistics	3												3
LIFS	4963	Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983)	3-7												
LIFS	4973	[Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]													
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	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												
CHEM	2311	Fundamentals of Organic Chemistry	3						3						3
CHEM	2311	Analytical Chemistry	3												
CHEM	2155	Note: CHEM2155 OR CHEM2355	1												
CHEM	2355	Fundamental Organic Chemistry Laboratory	1							1					1
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
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
<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>			68-76												59
<b>BBA in General Business Management</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	3												
ECON	2113	Principles of Microeconomics	3				3								3
ECON	2123	Note: ECON 2123 OR ECON 3123	3												
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
MGMT	2110	Organizational Behavior	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	1013	Calculus IB	4												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
<b>Required credits for School Requirements</b>			39-40												32
<b>Major Requirements</b>															
<b>Major Required Courses and Electives</b>															
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29						3	7	4	6	3	6	29
<b>Required credits for Major Required Courses and Electives</b>			29												29
<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
				17	16	18	18	19	21	19	19	15	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.