

<< 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												
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
COMP	2011	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3						3						3
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 discipline: CHEM, LIFS, 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	1030	Environmental Science	3												
LIFS	1901 [@]	General Biology I [@]	3												
LIFS	1902 [@]	General Biology II [@]	3												
LIFS	1903	Laboratory for General Biology I	1												
LIFS	1904	Laboratory for General Biology II	1												
LIFS	1930	Nature of Life Sciences	3												
LIFS	2210	Biochemistry I	3	10	3	6	3								22
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	4												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	4												
MATH	2121	Linear Algebra	4												
MATH	2131	Honors in Linear and Abstract Algebra I	4												
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												28
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 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	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 Organic Chemistry Laboratory	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/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 General Business Management															
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							1					1
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
SBMT	1111	Business Student Induction	0												0
LABU	2040	Business Case Analyses	3							3					3
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												
MATH	1020	Calculus IB	4		(3)										0
MATH	1023	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
Required credits for School Requirements			43-44												39
Major Requirements															
Major Required Courses and Electives															
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	6	3	7	3	7	29
Required credits for Major Required Courses and Electives			29												29
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMG	3950	Case-based Problem Solving	3		3										3
Required credits for Additional Requirements			3												3
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			36												36

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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.
- { } indicates the course overlapping with another requirement will not be necessarily counted towards the School Requirements.
- 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.