

<< Declaration of major

School:		School of Engineering and School of Business Management			Student's Pathway										Remarks	
Program:		Dual Degree Program (BEng in Bioengineering 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		Sub-total
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits													
<b>BEng in Bioengineering</b>																
<b>Major Requirements</b>																
<b>Engineering Fundamental Courses</b>																
COMP	1021	Introduction to Computer Science	3													
COMP	1022P	Introduction to Computing with Java	3													
COMP	1022Q	Introduction to Computing with Excel VBA	3		3										3	The course will also be used to substitute ISOM 2010
COMP	1029P	Python Programming Bridging Course	1													
COMP	2011	Programming with C++	4													
ENGG	1010	Academic Orientation	0	0	0										0	
CHEM	1010	General Chemistry IA	3	3											3	
CHEM	1020	General Chemistry IB	3													
CHEM	1050	Laboratory for General Chemistry I	1	1											1	
LANG	2030	Technical Communication I	3				3								3	
LIFS	1901	General Biology I	3	3											3	
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1014	Calculus II	3	3	3										6	
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
MATH	1024	Honors Calculus II	3													
PHYS	1112	General Physics I with Calculus	3	3											3	
PHYS	1312	Honors General Physics I	3													
SENG		Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3-4		(3)										0	
<b>Required credits for Engineering Fundamental Courses</b>			23-29												22	
<b>Major Required Courses and Electives</b>																
BIEN	1010	Introduction to Biomedical Engineering	3		3										3	
CENG	1000	Introduction to Chemical and Biological Engineering	3													
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3									3	
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3						3	
BIEN	2610	Chemical Biology for Engineers	3			3									3	
BIEN	2990	Academic and Professional Development I	1			1									1	
BIEN	3240	Transport Phenomena in Biological Systems	3									3			3	
BIEN	3320	Data Science for Biology and Medicine	3				3								3	
BIEN	3410	Introduction to Bioinstrumentation and Bioimaging	3							3					3	
BIEN	3910	Bioengineering Laboratory	4							4					4	
BIEN	4920	Bioengineering Capstone Design	6									3	3		6	
BIEN	4930	Bioengineering Thesis Research	6													
BIEN	4940	Bioengineering Industrial Project	6													
BIEN	4990	Academic and Professional Development II	1									1			1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3								3	
CENG	3230	Chemical and Biological Reaction Engineering	3							3					3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0						0	
ISOM	2500	Business Statistics	3													
LIFS	3150	Biostatistics	3			3									3	DDP students should take ISOM2500 to satisfy the requirements of both BEng and BBA degrees
MATH	2411	Applied Statistics	4													
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3			3	
SSCI/SENG		Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level)	15									6	3	6	15	
<b>Required credits for Major Required Courses and Electives</b>			60-61												60	
<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	Principles of Microeconomics	3					3							3	
ECON	2113	Microeconomics	3													
ECON	2123	Principles of 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	Substituted by COMP 1021/1022P/1022Q/COMP2011
ISOM	2020	Coding for Business	1												0	Substituted by COMP 1021/1022P/1022Q/1029P/2011
ISOM	2500	Business Statistics	3												0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1												0	Substituted by BIEN3320
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	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3				3								3	
LABU	2060	Effective Communication in Business	3								3				3	
MATH	1003	Calculus and Linear Algebra	3													
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3		(3)										0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
<b>Required credits for School Requirements</b>			43-44												34	
<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					6		3	9	4	7		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	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	2		2										2	
<b>Required credits for Additional Requirements</b>			0												2	
<b>University CORE</b>																
CORE	C3 - C12	U CORE - Others	30	3	3	3	3	3	6	3	3			3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3										6	
<b>Sub-total for University CORE</b>			36												36	
Term load (excl. free credits)																
					19	17	18	20	18	18	19	18	17	19		
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Note:  
( ) indicates the reuse of the same course to fulfill more than one requirement.  
--- denotes the course/requirement is either waived or substituted  
## To graduate, students should complete all requirements 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.