

<< Declaration of
BEng major << Declaration of
BBA major

School:		School of Engineering and School of Business Management			Student's Pathway											Remarks
Program:		Dual Degree Program (BEng in Chemical Engineering and BBA in Finance)			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													
BEng in Chemical Engineering																
Major Requirements																
Engineering Fundamental Courses																
COMP	1021	Introduction to Computer Science	3-5													
COMP	1022P	Introduction to Computing with Java	3	3											3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	2011	Programming with C++	4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
ENGG	1010	Academic Orientation	0	0	0										0	
CHEM	1010	Note: CHEM1010 OR CHEM1020 General Chemistry IA	3	3											3	
CHEM	1020	General Chemistry IB	3													
LANG	2030	Technical Communication I	3	---	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students
MATH	1012	Note: (MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1020)	4-7													
MATH	1013	Calculus IA	4													
MATH	1014	Calculus IB	3	3	3										6	
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
MATH	1024	Honors Calculus II	3													
MATH	2011	Introduction to Multivariable Calculus	3						3						3	
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3		3										3	
PHYS	1312	Honors General Physics I	3													
Required credits for Engineering Fundamental Courses			19-24												18	
Major Required Courses and Electives																
CENG	1000	Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering	3	3											3	
CENG	1500	A First Course on Materials Science and Applications	3													
CENG	1600	Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities	3		3										3	
CENG	1700	Introduction to Environmental Engineering	3													
BIEN	1010	Introduction to Biomedical Engineering	3													
CENG	1010	Academic and Professional Development I	0			0									0	
CENG	1980	Industrial Training	0											0	0	
CENG	2110	Process and Product Design Principles	3			3									3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3								3	
CENG	2220	Transport Phenomena I	3				3								3	
CENG	2310	Modeling for Chemical and Biological Engineering	3			3									3	
CENG	3110	Process Dynamics and Control	3						3						3	
CENG	3150	Integrated Chemical Process & Product Design	5						5						5	
CENG	3210	Separation Processes	3						3						3	
CENG	3220	Transport Phenomena II	3						3						3	
CENG	3230	Chemical and Biological Reaction Engineering	3						3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4				4	
CENG	4020	Academic and Professional Development II	0									0			0	
CENG	4920	Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students taking the Research Option must take CENG 4930)	6									3	3		6	
CENG	4930	Chemical Engineering Capstone Design	6													
CENG	4940	Chemical Engineering Thesis Research	6													
ENGG	2010	Engineering Seminar Series	0			0	0	0	0						0	
CHEM	1050	Laboratory for General Chemistry I	1		1										1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3								3	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1				1								1	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3			3	
BIEN	2410	Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers	3				3								3	
BIEN	2610	Chemical Biology for Engineers	3													
LIFS	1901	General Biology I	3													
SENG/SSCI/ENVR		CENG Elective (12 credits from specified elective list)	12					3	3	3	3				12	
Required credits for Major Requirements Courses and Electives			68												68	
BBA in Finance																
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 Principles of Microeconomics	3		3										3	
ECON	2113	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	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/2011/2012H
ISOM	2020	Coding for Business	1	---	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P
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	Waived for DDP students
LABU	2040	Business Case Analyses	3	---	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students
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 Calculus and Linear Algebra	3-4													
MATH	1012	Calculus IA	4	(3)											0	To satisfy the requirements of both BEng and BBA degrees, DDP students should NOT take MATH 1003.
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			45-46												35	
Major Requirements																
Major Required Courses and Electives																
FINA	3001	Key Skills for Finance Professionals (A)	1						1						1	
FINA	3103	Intermediate Investments	3						3						3	
FINA	3203	Derivative Securities	3							3					3	
FINA	3303	Intermediate Corporate Finance	3								3				3	
FINA	3810	Bloomberg Market Concepts Certification	0						0						0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3-6									3			3	
ACCT	3020	Financial Accounting II	3													
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3													
ISOM	3230	Note: ISOM 3230 OR ISOM 3400 Business Applications Programming	3							3					3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.
ISOM	3400	Python Programming for Business Analytics	3													
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3		9	
Required credits for Major Required Courses and Electives			25-28												25	
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	
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 - C12	U CORE - Others	30	3	3						3	9	6	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3										6	
Sub-total for University CORE			36												36	
Term load (excl. free credits)																
18 19 19 19 19 20 19 19 20 17																
189##																
Notes: () indicates the reuse of the same course to fulfill more than one requirement. * Courses offered in winter term ^ Courses offered in summer term --- 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.