The Hong Kong University of Science and Technology Interdisciplinary Programs Office An Example on Student's Pathway (as of July 11, 2022)



						<< Declaration major	. 51 BEIIG	<< Declaration major							
hool:		School of Engineering and School of Business Management								Student's Pathw	ay				
ogram:		Dual Degree Program (BEng in Bioengineering and BBA in Genearl Business Management)													
urse				~	Ύe	~	¥e	~	¥e	~	Ύe	~	Ύe	6	
ering ept	Course Code	Course Title / Courses List	Credits	Year 1	⁄ear 1 Spring	ear 2	ar 28	ear 3	ear 3 S	Year 4	ar 4 S	Year 5	ar 5 Spr	Sub-tota	Remarks
urse code			dits	r 1 Fall	Sprin	·2Fall	r 2 Spring	· 3 Fall	r 3 Spring	· 4 Fall	r 4 Spring	·5Fall	Spring	otal	
ix) Encai	in Dieer				ų		ų		ų		ų		ų		
	quirement	ngineering													
		ntal Courses													
Iginoonin		Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]	3-5			i		ļ							
MP MP	1021 1022P	Introduction to Computer Science Introduction to Computing with Java	3					İ							Students should take COM
OMP	1022P 1029P	Python Programming Bridging Course	1		3	l		i						3	which will also be used to su
MP	2011	Programming with C++	4					1							ISOM 2010 and to waive ISO
MP IGG	2012H 1010	Honors Object-Oriented Programming and Data Structures Academic Orientation	5	0	0									0	
		Note: CHEM1010 OR CHEM 1020			Ŭ	!									
IEM IEM	1010 1020	General Chemistry IA General Chemistry IB	3	3				1						3	
EM	1050	Laboratory for General Chemistry I	1	1		1		1						1	
NG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP studer
S	1901	General Biology I	3	3		i		<u> </u>						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7					i							
ТН	1012	Calculus IA	4			ļ		i					1		
тн тн	1013 1014	Calculus IB Calculus II	3	3	3	i		i						6	
тн	1020	Accelerated Calculus	3										1		
лтн Лтн	1023 1024	Honors Calculus I Honors Calculus II	3			ļ							1		
	1024	Honors Calculus II Note: PHYS 1112 OR PHYS 1312	3			1		<u> </u>					-		1
IYS	1112	General Physics I with Calculus	3	3		i		ļ						3	
IYS	1312	Honors General Physics I Engineering Introduction course (If the students take an introduction course included in their major, this	3	∦	ł	ł		<u> </u>	+	}			+	ł	1
NG		course can be counted towards their major requirement.)	3-4		(3)			Į						0	ļ
	<u> </u>	Required credits for Engineering Fundamental Courses	23-29			i		i –					1	19	
ajor Requ	ured Course	s and Electives Note: BIEN 1010 OR CENG 1000		T	r	8		r	1	r			T	r	
ΞN	1010	Note: BIEN 1010 OR CENG 1000 Introduction to Biomedical Engineering	3		3	i		I					1	3	
NG	1000	Introduction to Chemical and Biiological Engineering	3			<u>i .</u>								-	<u> </u>
EN EN	2310 2410	Modeling for Chemical and Biological Engineering	3			3		! !	3					3	
EN	2410	Cellular and Systems Physiology for Engineers Chemical Biology for Engineers	3			3		ļ	3					3	
EN	2990	Academic and Professional Development I	1			1		ļ						1	
		Note: BIEN 3310 OR BIEN 3320	· · ·			1		1							
EN	3310	Data Science for Neural Engineering	3				3	l						3	
EN EN	3320 3410	Data Science for Biology and Medicine Introduction to Bioinstrumentation and Bioimaging	3			ļ		i		3				3	
EN	3910	Bioengineering Laboratory	4			i		i		4				4	
		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940													
EN EN	4920 4930	Bioengineering Capstone Design Bioengineering Thesis Research	6			1		1				3	3	6	
EN	4930	Bioengineering Industrial Project	6			i]							
EN	4990	Academic and Professional Development II	1					<u> </u>			-		1	1	
ENG	2210	Chemical and Biological Engineering Thermodynamics	3				3	ļ						3	
NG	2220	Transport Phenomena I	3			i		• 				3		3	
ING	3230 2010	Chemical and Biological Reaction Engineering Engineering Seminar Series	3			0	0	0	0	3				3	
	2010	Note: LIFS 3150 OR MATH 2411 OR BIEN 3300	3-4			•		-	•						
s	3150	Biostatistics	3			3								3	
ATH EN	2411 3300	Applied Statistics Data Science for Molecular Engineering	4			-									
NG	4035	Technical Communication II for Chemical and Biological Engineering	3			1		1				3		3	
CI/SENG		Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be	45			i						3	6	45	
GI/SENG		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			-		ļ			6	3	b	15	
		Required credits for Major Required Courses and Electives	60-61					<u> </u>						60	
		Business Management													
	equireme				-								-		1
ст ст	2010	Principles of Accounting I	3	l		3			-				<u> </u>	3	-
21	2200	Principles of Accounting II Note: ECON 2103 OR ECON 2113	3	┨────		<u> </u>			3					3	
ON	2103	Principles of Microeconomics	3			3								3	
ON	2113	Microeconomics	3	l		<u>!</u>		<u> </u>					<u> </u>		-
ON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			i		ļ		3				3	
ON	3123	Macroeconomic Theory I	3	I				ļ	ļ				ļ		
NA	2303	Financial Management	3	I		<u> </u>	3	ļ					<u> </u>	3	Cubatilities to occur
OM	2010	Introduction to Information Systems	3	-	-	<u>i -</u>	-	<u>i</u>	-	-	-	-	-	0	Substituted by COMF 1021/1022P/2011/2012
	2020	Cadina fa Dusinasa												^	Waived for DDP students
MC	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-		0	have taken and passed COM or COMP 1029P
DM	2500	Rusinese Statistice	3			Ī		-						^	Substituted by
זער	2000	Business Statistics	3	-	-	-	-		-	-	-	-	-	0	LIFS 3150/MATH 2411/BIE
M	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-		0	Substituted by BIEN 3310/3320
M	2700	Operations Management	3			I		ļ —	3				1	3	BIEN 3310/3320
	2120	Marketing Management	3		L	1	3	Î	1				L	3	1
RK	0010	Business Ethics and the Individual	2			2								2	
	2010	Organizational Behavior	3				3							3	
MT MT	2110	-						2						2	
MT MT	2110 2130	Business Ethics and Social Responsibility	2									1		1	
SMT SMT SMT	2110 2130 1111	Business Ethics and Social Responsibility Business Student Induction	0	-	-	<u> </u>	-		-	-	-	-	-	0	
ARK GMT GMT GMT BMT BBU	2110 2130 1111 2040	Business Ethics and Social Responsibility Business Student Induction Business Case Analyses	0 3	-	-		-		-	-	-	-	-	0	
GMT GMT GMT BMT	2110 2130 1111	Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business	0 3 3			1									
SMT SMT SMT MT BU BU	2110 2130 1111 2040 2060 1003	Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	0 3			1								0	Waived for DDP studer
SMT SMT MT BU BU TH TH	2110 2130 1111 2040 2060 1003 1012	Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA	0 3 3 3-4			1								0	Waived for DDP studer DDP students should take 1013 OR MATH 1023 to sati
IMT IMT IMT BU BU TH	2110 2130 1111 2040 2060 1003	Business Ethics and Social Responsibility Business Student Induction Business Case Analyses Effective Communication in Business Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	0 3 3 3-4 3	-		1								0 3	Waived for DDP studen Waived for DDP studen DDP students should take M 1013 OR MATH 1023 to sati requirements of both BSc an degrees

Major Requirements
Major Required Courses and Electives
SB&M Electives (Any
Institute active)

SB&M, of which at least 4 courses are of Т



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			i		3	3	7	7	3	6	29	
		Required credits for Major Required Courses and Electives	29			1		Ì						29	
Additi	onal Red	quirements													
		r Dual Degree Program													
Required	Courses														
ГEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	T&M Case Analysis and Product Innovation	3		3	I		1						3	
TEMG	4950	T&M Corporate Consulting Project	3-5					4						4	
		Required credits for Additional Requirements	7			-		1						7	
Univers	sity CORE														
CORE	C3 - C12	U CORE - Others	30		3	<u> </u>	3	6	6		6	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3	ļ		ļ						6	
		Sub-total for University CORE	36											36	
	Term load (excl. free credits)														
				16	18	18	18	18	18	20	19	18	19	_	
									82##					1	
Notes:					<< Declaration of BEng << Declaration of BBA major major										
) indicates	the reuse of the s	same course to fulfill more than one requirement.				-		-							
denotes ti	ne course/require	ement is either waived or substitued													
## To gradu	ate, students sho	ould complete all requirements specified for DDP.													
*Remarks or	n course(s):														
	ent of this examp chool and Depar	le is not necessarily equivalent to a complete list of graduation requirements of the program. Students should re	efer to the Pro	gram Catalog/U	IG Curriculum F	landbook for upda	ated graduation r	requirements. Fo	or up-to-date info	rmation on cours	e offering and sc	heduling, studen	ts should check i	t out from	1