BEMARK

Student's Pathway

2023-24 Intake

(Via DDP PBA)

Academy of Interdisciplinary Studies

An Example on Student's Pathway (as of August 3, 2023)

School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		Dual Degree Program (BEng in Bioengineering and BBA in Marketing)													
Course Offering Dept (course code	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Sprin	Year 2 Fall	Year 2 Sprin	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
prefix)				=	ing	=	ing	=	ing	≝	ing	≝	ing	_	
BEna	in Bioe	ngineering	•		•			-	•	•	•	•	•		
Major Re	equireme	nts													
Engineerin	g Fundame	ental Courses													
COMP	1021	Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science	3-5 3			İ		ļ							Students should take COMP1021 which
COMP COMP	1022P 1029P	Introduction to Computing with Java Python Programming Bridging Course	3 1		3			ļ						3	will also be used to substitute ISOM
COMP	2011 2012H	Programming with C++ Honors Object-Oriented Programming and Data Structures	4			!		ļ							2010 and to waive ISOM 2020
CHEM	1020	General Chemistry I	3	3		<u> </u>								3	
CHEM	1050	Laboratory for General Chemistry I	1	1		<u> </u>		<u>!</u>						1	
LANG	2030	Technical Communication I	3	-	-	-	-	<u> </u>	-	-	-	-	-	0	Waived for DDP students
LIFS	1901	General Biology I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	3 4-7	3		<u> </u>		!						3	
MATH	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4			į		į							
MATH MATH	1013 1014	Calculus IB Calculus II	3	3	3	į		į						6	
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3			:		i							
MATH	1024	Honors Calculus II Note: PHYS 1112 OR PHYS 1312	3			<u> </u>		i							
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3			3		i						3	
SENG	1012	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)	i		i						0	
		Required credits for Engineering Fundamental Courses	23-29			!		i İ						19	
Major Req	uired Cours	es and Electives													
BIEN	1010	Note: BIEN 1010 OR CENG 1000 Introduction to Biomedical Engineering	3		3	į		i						3	
CENG BIEN	1000 2310	Introduction to Chemical and Biiological Engineering Modeling for Chemical and Biological Engineering	3			3		<u>:</u>						3	
BIEN	2410	Cellular and Systems Physiology for Engineering	3	1		!		i	3					3	
BIEN	2610	Chemical Biology for Engineers	3			3								3	
BIEN	2990	Academic and Professional Development I	1			1								1	
BIEN	3310	Note: BIEN 3310 OR BIEN 3320 Data Science for Neural Engineering	3			:	3]			3	
BIEN BIEN	3320 3410	Data Science for Biology and Medicine Introduction to Bioinstrumentation and Bioimaging	3			!		!		3				3	
BIEN	3910	Bioengineering Laboratory	4			i		!		4				4	
BIEN	4920	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 Bioengineering Capstone Design	6			•		:							
BIEN	4920 4930 4940	Bioengineering Thesis Research	6			!		!				3	3	6	
BIEN BIEN	4940 4990	Bioengineering Industrial Project Academic and Professional Development II	6 1			<u>i</u>		<u>!</u>		L		L	1	1	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3			:	3	Į .						3	
CENG	2220	Transport Phenomena I	3			!		<u> </u>				3		3	
CENG	3230	Chemical and Biological Reaction Engineering	3			<u> </u>	_	<u> </u>	-	3				3	
ENGG	2010	Engineering Seminar Series Data Science for Molecular Engineering	0			0	0	0	0					3	
BIEN LANG	3300 4035	Technical Communication II for Chemical and Biological Engineering	3			:		3				3		3	
		Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be				 		į							
SSCI/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			<u>i </u>		i	3		6		6	15	
		Required credits for Major Required Courses and Electives	60-61					:						60	
	Marketi														
	Requirem			1	1			1	ı	1	1	1	ı	1	
ACCT	2010	Principles of Accounting I Principles of Accounting II	3	3		. 		i	3					3	
		Note: ECON 2103 OR ECON 2113				!		i	3						
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3			3		•						3	
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3			i		:		3				3	
ECON FINA	3123 2303	Macroeconomic Theory I Financial Management	3			:	3	<u> </u>						3	
ISOM	2010	Introduction to Information Systems	3			<u> </u>	-	!			_			0	Substituted by COMP
		•				j		!							1021/1022P/2011/2012H Waived for DDP students if they have
ISOM	2020	Coding for Business	1	-	-	-			-	-	-	-	-	0	taken and passed COMP1021 or COMP 1029P
ISOM	2500	Business Statistics	3		3	:		!						3	
						<u>!</u>		!							Substituted by
ISOM	2600	Introduction to Business Analytics	1	-	-		-	<u> </u>	-	-	-	-	-	0	BIEN 3310/3320
ISOM MARK	2700 2120	Operations Management Marketing Management	3			<u>.</u> :	3	3						3	MARK 2120 is a major pre-requisite
MGMT	2010	Business Ethics and the Individual	2			<u>. </u>	3	!			2			2	WATER 2120 is a major pre-requisite
MGMT	2110	Organizational Behavior	3			<u>. </u>	3	<u> </u>				L		3	
MGMT	2130	Business Ethics and Social Responsibility	2			İ.		!					2	2	
		Note: LANG 2061 OR 2062 OR 3060				!		!							Non DDP-ECON students take ONLY a
LANG	2061	Professional Writing for the Workplace	3			<u> </u>		ļ				3		3	3-credit of SBM-specific English course, in which they can choose from one of
	2062 3060	Professional Speaking for the Workplace Advanced Academic Writing	3			<u>!</u>		ļ.							the three LANG courses (LANG 2061, LANG 2062, or LANG 3060).
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4	-		<u>. </u>		!							
MATH MATH	1003 1012	Calculus and Linear Algebra Calculus IA	3 4	100		:		į						_	DDP students should take MATH 1013 OR MATH 1023 to satisfy the
MATH MATH	1013 1020	Calculus IB Accelerated Calculus	3 4	(3)		ļ .		į			ĺ			0	requirements of both BSc and BBA degrees
MATH	1023	Honors Calculus Required credits for School Requirements	3	-		i 		i		1	1	1		34	209.000
Major P	equireme		43-44	II	1			<u>:</u>	l	<u> </u>	İ	<u> </u>	I	34	1
		es and Electives													
MARK	3220	Marketing Research	4			i		4						4	
MARK	3420	Consumer Behavior	4					: 	4					4	
MARK	4210	Strategic Marketing	4							4				4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12	<u> </u>		<u> </u>		<u>:</u>		-	4	4	4	12	
A 414! -	nol Dee	Required credits for Major Required Courses and Electives	24	1		<u>!</u>		<u> </u>		L	<u> </u>	L		24	
		uirements													
Required (Dual Degree Program													
TEMG	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	:		:						3	
TEMG	4950	T&M Corporate Consulting Project	3-5			<u>. </u>		4						4	
	1	Required credits for Additional Requirements				<u> </u>		<u> </u>						7	
Universi	ty CORE	<u> </u>	<u> </u>							<u> </u>					
CORE	C3 - C9	U CORE - Others	21			3	3	3	6		6			21	
CORE	C1 & C2	U CORE - English Language	6	3	3	<u>!</u>		<u>!</u>						6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness Sub-total for University CORE	3 36	1	2	<u> </u>		! 		1	1	1		3	
		Sub-total for Offiversity CORE	50	1	1	<u> </u>		Term load (ex	xcl. free credits)	<u>I</u>	İ	<u>I</u>	Ì	30	I
				17	20	16	18	17	19	17	18	16	16	1	
						174##									
Notes: <- Declaration of BEng <- Declaration of BBA major ma															
() indicator t	he reuse of the	e same course to fulfill more than one requirement.				major		major							
		irement is either waived or substitued													

--- denotes the course/requirement is either waived or substitued

To graduate, students should complete all requirements specified for DDP.

School:

School of Engineering and School of Business Management

>> 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.