

<< Declaration of BSc major << Declaration of BBA major

School:		School of Engineering and School of Business Management			Student's Pathway										Remarks
Program:		Dual Degree Program (BSc in Integrative Systems and Design and BBA in 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 Integrative Systems and Design															
Major Requirements															
Engineering Fundamental Courses															
COMP	1021	Note: COMP1021 OR COMP1022P	3												3
COMP	1022P	Introduction to Computer Science	3												3
ENGG	1010	Introduction to Computing with Java	0	0	0										0
LANG	2030	Academic Orientation	0												0
		Technical Communication I	3							3					3
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	Calculus II	3												
MATH	1023	Accelerated Calculus	4												
MATH	1024	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
PHYS	1001	Note: PHYS1001 OR PHYS1111 OR PHYS1112 OR PHYS1312	3												
PHYS	1111	Physics and the Modern Society	3												
PHYS	1112	General Physics I	3												
PHYS	1312	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
Required credits for Engineering Fundamental Courses			13-16												15
Major Required Courses and Electives															
ISDN	1002	Redefining Problems for the Real Needs	3				3								3
ISDN	1004	Sketching	1				1								1
ISDN	1006	Human-centered Innovation	3					3							3
ISDN	2001	Second Year Design Project I	1						1						1
ISDN	2002	Second Year Design Project II	4							4					4
ISDN	2200	Systems Thinking and Design	3												3
ISDN	2300	Digital Design	3				3								3
ISDN	2400	Physical Prototyping	3							3					3
ISDN	3001	Third Year Design Project I	4								4				4
ISDN	3002	Third Year Design Project II	4									4			4
ISDN	4001	Final Year Design Project I	5										5		5
ISDN	4002	Final Year Design Project II	5											5	5
LANG	4032	Technical Communication II for IEDA and ISDN	3								3				3
ISDN/ENGG/IEDA		Design Electives (5 credits from the specified elective list)													
ISDN/ENTR/IEDA/SBM		Product Management and Entrepreneurship Electives (9 credits from the specified elective list)													
ISDN		Project-related Electives (22 credits from the specified elective list. Students should seek approval of their advisor for the choices of courses)	36					5	3	3	3	7	3	3	27
Required credits for Major Requirements Courses and Electives			78												69
BBA in 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	Macroeconomic Theory I	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	(3)											
MATH	1013	Calculus IB	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
Required credits for School Requirements			45-46												39
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4							4					4
MGMT	3120	Human Resources Management	4												
MGMT	3120	Managerial Leadership	4												
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4						4						4
MGMT	3140	Judgement and Decision Making in Organizations	4												
MGMT	3140	Negotiation	4												
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4									3			3
MGMT	4220	Corporate Strategy	3												
MGMT	4220	Entrepreneurship and Innovation	4												
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9								3	3	3		9
Required credits for Major Required Courses and Electives			20-21												20
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	9	6			3			3		6	3	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 18 19 19 19 20 19 19 17 14															
182##															

Notes:
 () 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.
 * 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):