

<< 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 OR COMP2011 OR COMP2012H	3-5												
COMP	1022P	Introduction to Computer Science	3	3											
COMP	2011	Introduction to Computing with Java	3												
COMP	2012H	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
LANG	2030	Technical Communication I	3												
		Note: [MATH 1012 OR MATH 1013 OR MATH 1023 AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] (Subject to approval of the program office, MATH 1014/1024 may be replaced by a COMP course)	4-7												
MATH	1012	Calculus IA	4	3	3										
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
PHYS	1101	Note: PHYS1101 OR PHYS1111 OR PHYS1112 OR PHYS1312	3												
PHYS	1111	Introductory Physics	3		3										
PHYS	1112	General Physics I	3												
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
Required credits for Engineering Fundamental Courses			13-18												12
Major Required Courses and Electives															
ISDN	1002	Redefining Problems for the Real Needs	3												3
ISDN	1004	Sketching	1												1
ISDN	1006	Human-centered Innovation	3												3
ISDN	2001	Second Year Design Project I	1												1
ISDN	2002	Second Year Design Project II	4												4
ISDN	2200	Systems Thinking and Design	3												3
ISDN	2300	Digital Design	3												3
ISDN	2400	Physical Prototyping	3												3
ISDN	3001	Third Year Design Project I	4												4
ISDN	3002	Third Year Design Project II	4												4
ISDN	4001	Final Year Design Project I	5												5
ISDN	4002	Final Year Design Project II	5												5
LANG	4032	Technical Communication II for IEDA and ISDN	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												30
Required credits for Major Requirements Courses and Electives			78												72
BBA in Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3	3											3
ACCT	2200	Principles of Accounting II	3												3
ECON	2103	Note: ECON 2103 OR ECON 2113	3												3
ECON	2113	Principles of Microeconomics	3												3
ECON	2123	Note: ECON 2123 OR ECON 3123	3												3
ECON	3123	Macroeconomics	3												3
FINA	2303	Macroeconomic Theory I	3												3
ISOM	2010	Financial Management	3												3
ISOM	2010	Introduction to Information Systems	3												0
ISOM	2020	Coding for Business	1												0
ISOM	2500	Business Statistics	3												3
ISOM	2600	Introduction to Business Analytics	1												1
ISOM	2700	Operations Management	3												3
MARK	2120	Marketing Management	3												3
MGMT	2010	Business Ethics and the Individual	2												2
MGMT	2110	Organizational Behavior	3												3
MGMT	2130	Business Ethics and Social Responsibility	2												2
LABU	2040	Business Case Analyses	3												0
LABU	2060	Effective Communication in Business	3												3
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												0
MATH	1012	Calculus and Linear Algebra	3												0
MATH	1013	Calculus IA	4												0
MATH	1013	Calculus IB	3												0
MATH	1020	Accelerated Calculus	4												0
MATH	1023	Honors Calculus I	3												0
Required credits for School Requirements			43-44												35
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
MGMT	3120	Human Resources Management	4												4
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												4
MGMT	3140	Managerial Leadership	4												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
MGMT	4220	Judgement and Decision Making in Organizations	4												3
MGMT		Negotiation	4												3
MGMT		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
MGMT		Corporate Strategy	3												3
MGMT		Entrepreneurship and Innovation	4												3
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												9
Required credits for Major Required Courses and Electives			20-21												20
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
TEMG	4950	T&M Corporate Consulting Project	3-5												4
Required credits for Additional Requirements			7												7
University CORE															
CORE	C3 - C9	U CORE - Others	21												18
CORE	C1 & C2	U CORE - English Language	6	3	3										6
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3										3
Sub-total for University CORE			30												27
Term load (excl. free credits)															
15 18 16 14 16 20 19 17 19															
173##															

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):