

<< 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	Sub-total	
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													
COMP	2011	Introduction to Computing with Java		3	3												
COMP	2012H	Programming with C++		4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures		5													
LANG	2030	Technical Communication I		3	---	---	---	---	---	---	---	---	---	---	---	0	
		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													
MATH	1013	Calculus IB		3	3		3									6	
MATH	1014	Calculus II		3													
MATH	1020	Accelerated Calculus		4													
MATH	1023	Honors Calculus I		3													
MATH	1024	Honors Calculus II		3													
		Note: PHYS1101 OR PHYS1111 OR PHYS1112 OR PHYS1312		4													
PHYS	1101	Introductory Physics		4													
PHYS	1111	General Physics I		3													
PHYS	1112	General Physics I with Calculus		3			3										
PHYS	1312	Honors General Physics I		3													
Required credits for Engineering Fundamental Courses				13-18												12	
Major Required Courses and Electives																	
ISDN	1001	Introduction to Integrative Systems and Design		3				3									
ISDN	1002	Redefining Problems for the Real Needs		3				3									
ISDN	1004	Sketching		1				1									
ISDN	1006	Human-centered Innovation		3				3									
ISDN	1010	Academic Orientation I		0				0	0								
ISDN	1011*	Industrial Training		0												Take in Winter or Summer	
ISDN	2001	Second Year Design Project I		1					1								
ISDN	2002	Second Year Design Project II		4						3							
ISDN	2010	Academic Orientation II							0	0							
ISDN	2200	Systems Thinking and Design		3				3									
ISDN	2300	Digital Design		3				3									
ISDN	2400	Physical Prototyping		3						3							
ISDN	2601	Exploring the World Through Smart Mechatronics		3						3							
ISDN	2602	Internet of Things: Integrative System Design		3						3							
ISDN	2603	Materials, Shape and Design		3							3						
ISDN	3200	Graphic Communication		2							2						
ISDN	3001	Third Year Design Project I		4							3						
ISDN	3002	Third Year Design Project II		4								3					
ISDN	3010	Academic Orientation III									0	0					
ISDN	4001	Final Year Design Project I		5									4				
ISDN	4002	Final Year Design Project II		5										4			
ISDN	4010	Academic Orientation IV											0	0			
LANG	4030	Note: LANG 4030 OR LANG 4031 OR LANG 4032 OR LANG 4034		3								3					
LANG	4031	Technical Communication II for CSE, CPEG & DSCIT															
LANG	4032	Technical Communication II for IEA and ISDN															
LANG	4034	Technical Communication II for Mechanical and Aerospace Engineering															
ISDN		Project-related Electives (Students should seek approval of their advisor for the choices of courses)		18					3	3	3	6	3			18	
ISDN/ENTR/TEMG/FINA/SOM/MARK		Product Management and Entrepreneurship Electives (Courses from the specified elective list, of which at least 1 course must be at 3000-level or above.)		6								3				3	
Required credits for Major Requirements Courses and Electives				78												72	
BBA in Management																	
School Requirements																	
ACCT	2010	Principles of Accounting I		3	3												
ACCT	2200	Principles of Accounting II		3						3							
ECON	2103	Note: ECON 2103 OR ECON 2113		3													
ECON	2113	Principles of Microeconomics		3			3										
ECON	2123	Note: ECON 2123 OR ECON 3123		3						3							
ECON	3123	Macroeconomics		3													
FINA	2303	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 2110 is a major pre-requisite	
MGMT	2130	Business Ethics and Social Responsibility		2								2					
LANG	2061	Note: LANG 2061 OR 2062 OR 3060		3									3				
LANG	2062	Professional Writing for the Workplace		3													
LANG	3060	Advanced Academic Writing		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	1020	Calculus IB		3													
MATH	1023	Accelerated Calculus		4													
MATH	1023	Honors Calculus I		3													
Required credits for School Requirements				45-46												34	
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													
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)		4													
MGMT	3140	Judgement and Decision Making in Organizations		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													
MGMT	4220	Corporate Strategy		3								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	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													
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				3	6				3			9	
CORE	C1 & C2	U CORE - English Language		6	3	3										6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness		3	1	2										3	
Sub-total for University CORE				30												30	
Term load (excl. free credits)																	
16 17 19 18 18 19 19 17 16 16																	
175##																	
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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.