

				<< Selection of BEng major		<< Declaration of BEng major		<< Selection of BBA major											
School:		School of Engineering and School of Business Management		Student's Pathway															
Program:		Dual Degree Program (BEng in Aerospace Engineering and BBA in Economics)												Remarks					
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	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

BEng in Aerospace Engineering

Engineering Fundamental Courses

COMP COMP COMP	1023 2011 2012H	Note: COMP1023 OR COMP2011 OR COMP2012H  Introduction to Python Programming Programming with C++ Honors Object-Oriented Programming and Data Structures	3-5 3 4 5	3										3	Students should take COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020			
MATH MATH MATH MATH MATH	1013 1014 1020 1023 1024	Note: [(MATH 1013 OR MATH1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]  Calculus I Calculus II Accelerated Calculus Honors Calculus I Honors Calculus II	4-7 3 3 4 3 3	3	3									6	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees			
MATH	2011	Introduction to Multivariable Calculus	3			3								3				
MATH MATH MATH	2111 2350 2351	Note: MATH2111 OR MATH2350 OR MATH2351  Matrix Algebra and Applications Applied Linear Algebra and Differential Equations Introduction to Differential Equations	3 3 3				3							3				
PHYS PHYS	1112 1312	Note: PHYS1112 OR PHYS1312  General Physics I with Calculus Honors General Physics I	3 3 3		3									3				
CHEM CHEM LIFS PHYS	1008 1012 1901 1101	Science 1000-level course (1 course of the specified course list)  Introductory Chemistry General Chemistry B: Atomic Structure, Molecules, and Bonding Theories General Biology I Introductory Physics	3-4 3 3 3 4		3									3				
Required Credits for Engineering Fundamental Courses				19-25	6	9	3	3	0	0	0	0	0	0	21			

Major Required Courses and Electives

MECH	1001	Academic and Professional Development I	0	0	0	0	0							0				
MECH	1910	Foundations of Mechanical and Aerospace Engineering	3	3										3				
MECH	1990	Industrial Training	0			0*	0^							0				
MECH	2002	Academic and Professional Development II	0					0	0	0	0			0				
MECH	2007	Aerospace Engineering: Principles and Systems	3			3								3				
MECH	2020	Statics and Dynamics	3			3								3				
MECH	2040	Solid Mechanics I	3				3							3				
MECH	2210	Fluid Mechanics	3				3							3				
MECH	2310	Thermodynamics	3			3								3				
MECH	3400	Introduction to Composite Materials	3					3						3				
MECH	3610	Control Principles	3					3						3				
MECH	3620	Aircraft Design	3						3					3				
MECH	3640	Aerodynamics	3					3						3				
MECH	3650	Aircraft Structural Analysis	3					3						3				
MECH	3660	Gas Turbines and Jet Propulsion	3						3					3				
MECH	3670	Aircraft Performance and Stability	3					3						3				
MECH	3680	Avionics Systems	3						3					3				
MECH	3690	Aerospace Engineering Laboratory	3						3					3				
MECH	4980	Final Year Aerospace Design Project	6									3	3	6				
ELEC	2420	Basic Electronics	3			3								3				
MECH		AE Electives (2 courses from the specified elective list)	6							3	3			6				
BEng in Aerospace Engineering Major Requirements				60	3	0	12	6	15	12	3	3	3	3	60			

BBA in Economics

School Requirements

ACCT	2010	Principles of Accounting I	3	3										3				
ACCT	2200	Principles of Accounting II	3						3					3				
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113  Principles of Microeconomics Microeconomics	3 3 3		3									3	ECON 2103 / 2113 / 2123 is a major pre-requisite			
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123  Macroeconomics Macroeconomic Theory I	3 3 3								3			3				
FINA	2303	Financial Management	3			3								3				
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H instead of ISOM 2010.			
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 2011 and COMP 2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.			
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				
MATH MATH MATH MATH	1003 1013 1020 1023	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023  Calculus and Linear Algebra Calculus IB Accelerated Calculus Honors Calculus I	3-4 3 3 4 3	(3)										0	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees			
Required Credits for School Requirements				39-40	6	3	3	7	0	3	2	3	2	3	32			

Major Required Courses and Electives

ECON	3014	Managerial Microeconomics	4					4						4				
ECON	3024	Managerial Macroeconomics	4						4					4				
ECON	3334	Introduction to Econometrics	4							4				4				
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11				
Required Credits for Major Required Courses and Electives				23	0	0	0	0	4	4	4	4	4	3	23			

Additional Requirement for Dual Degree

Requirements for Dual Degree Program

TEMG	1011	T&M Professional Activities I	0	0	0									0	To graduate, students should complete <b>ALL</b> requirements as specified for DDP.			
TEMG	1012	T&M Professional Activities II	0			0	0							0				
TEMG	1013	T&M Professional Activities III	0					0	0					0				
TEMG	1014	T&M Professional Activities IV	0							0	0			0				
TEMG	1015	T&M Professional Activities V	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							4				4				
Required credits for Additional Requirements				7	0	3	0	0	0	0	4	0	0	0	7			

University Common Core Requirements

CORE	C3 - C9	U CORE - Others	21							3	6	6	6	21	
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	4	5	0	0	0	0	3	6	6	6	30
				Term load (excl. free credits)										173	
				19	20	18	16	19	19	16	16	15	15		
				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):

>> 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.