

AU Requirement for Aerospace Engineering with Second Major in Business (International Trading) (ASBM-ITP)
 Students admitted from AY2020/2021

Year of Study	Number of Academic Units (AUs)								
	Major Requirements		General Education Requirement (GER)						Total
	Core	Major PE	GER Core	GER Prescribed Electives				UE	
				BM	LA	STS	Any Category (BM, LA, STS)		
1	25	0	8					14	47
2	23	0	4					6	33
3	25	0	2					4	31
4	23	6	0					6	35
Total	96	6	14	0				30	146

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Course Code and Title	Type	AU	Pre-requisite/ Remarks
YEAR 1 SEMESTER 1			
MH1810 Mathematics I	C	3	
PH1011 Physics	C	3	Pass A Level Physics
OR PH1012 Physics A		OR 4	PH1012 is only for Poly Direct Entry Students and JC students without A Level Physics
MA2001 Mechanics of Materials	C	3	
Engineering Fundamentals 2	C	3	
AD1101 Financial Management	UE	4	
AB1201 Financial Management	UE	3	
HW0188 Effective Communication	GC	2	HW0001 (co-requisite)
GC0001 Sustainability: Seeing Through The Haze	GC	1	
ET0001 Enterprise & Innovation	GC	1	
HY0001 Ethics and Moral Reasoning	GC	1	
Total		24	
YEAR 1 SEMESTER 2			
MH1811 Mathematics II	C	3	
MA1001 Dynamics	C	3	Having read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201
MA1008 Introduction to Computational Thinking	C	3	
MA1700 Aerospace Discovery Course	C	1	
MA2003 Introduction to Thermo-fluids	C	3	
EG0001 Engineers & Society	GC	3	
AB1501 Marketing	UE	3	
BE1401 Business Operations and Processes	UE	4	
Total		23	
YEAR 2 SEMESTER 1			
MA2005 Engineering Graphics	C	3	
MA2006 Engineering Mathematics	C	3	FE1006/MH1810 and FE1007/MH1811 or CY1201 and CY1203 or MA1003/MH2812
MA2072 Laboratory Experiments (AE)	C	1	
MA2701 Flight Performance	C	2	MA1001 & MA1700
MA3700 Aircraft Structures I	C	3	MA2001
ML0003 Kickstart Your Career Success	GC	1	
BF2218 Commodity Market	UE	4	
Total		17	
YEAR 2 SEMESTER 2			
MA2007 Thermodynamics	C	3	MA2003
MA2700 Aerospace Materials & Manufacturing Processes	C	3	
MA2079 Engineering Innovation and Design	C	2	Semester 2 with 1 week in Special Term
MA3006 Fluid Mechanics	C	3	MA2003
BF3214 Commodities Trading	UE	2	
MA0218 Introduction to Data Science and Artificial Intelligence	GC	3	
Total		16	

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YEAR 3 SEMESTER 1			
MA3072 Mechanical Experiments	C	1	
MA3701 Aerodynamics	C	3	
MA3702 Aircraft Propulsion	C	3	MA2007
MA3703 Flight Dynamics	C	2	MA1001 & MA1700
MA3704 Aircraft Electrical Devices	C	3	
MA3705 Aerospace Control Theory	C	3	MA3703 and Having Read MA2006
HW0288 Engineering Communication	GC	2	HW0188
BF2216 Trade Incoterms & Ship Chartering	UE	4	
Total		21	
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	C	10	Students may do MA3075 Professional Attachment in Year 2 Special Semester (5 AU) and UE courses in any semester (5 AU) instead of MA3080.
Total		10	
YEAR 4 SEMESTER 1			
MA4079 Final Year Project	C	4	Year 4 standing, 2 semesters
MA4701 Aircraft Design	C	3	MA3701,MA3702 & MA3703
MA4702 Aircraft Structures II	C	3	MA2001,MA3700 & MA3701
MA4704 Aeroelasticity	C	3	MA3700 & MA3701
MA4705 Aircraft Navigation and Flight Computers	C	3	MH1811/FE1007/CY1203/CY1602/MH2812/MH2810
BF2302 International Tax and Trading Law	UE	2	
Total		18	
YEAR 4 SEMESTER 2			
MA4079 Final Year Project	C	4	Year 4 standing, 2 semesters
MA48XX Major-PE 1	PE	3	
MA48XX Major-PE 2	PE	3	
MA3003 Heat Transfer	C	3	MA2007
BF3212 Trade, Structured & Supply Chain Finance	UE	2	BF2216
BF3213 Enterprise Risk Management in Commodity Markets	UE	2	
Total		17	
GRAND TOTAL (Year 1 to 4)		146	