

AU Requirement for Double Degree Programme (DDP)  
 Bachelor of Engineering (Aerospace Engineering) and Bachelor of Social Science (Economics)  
 Students admitted from AY2020/2021

Year of Study	Number of Academic Units (AUs)										Total
	AE CORE (C)	ECONS CORE (EC)	AE MAJOR PE (PE)	ECONS ELECTIVE (EPE)	General Education Requirement (GER)					UE	
					Core (GC)	Prescribed Electives					
						LA	STS	BM	ANY		
1	25	12	-	-	8	-	-	-	-	-	45
2	29	3	-	3	1	-	-	-	-	-	36
3	22	3	-	-	3	-	-	-	-	-	28
4	9	7	-	18	2	-	-	-	-	-	36
5	11	-	6	18	-	-	-	-	-	-	35
<b>Total</b>	<b>96</b>	<b>25</b>	<b>6</b>	<b>39</b>	<b>14</b>	<b>0</b>				<b>0</b>	<b>180</b>

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Course Code and Title	Type	AU	Pre-requisite/ Remarks
<b>YEAR 1 SEMESTER 1</b>			
MH1810 Mathematics I	C	3	
PH1011 Physics	C	3	PH1011: 'A' level Physics
OR PH1012 Physics A		4	
Engineering Fundamentals 2	C	3	
MA2001 Mechanics of Materials	C	3	
HE1001 Microeconomics Principles	EC	3	
HE1002 Macroeconomics Principles	EC	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	
<b>Total</b>		<b>23</b>	
<b>YEAR 1 SEMESTER 2</b>			
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	
HE1005 Introduction to Probability and Statistical Inference	EC	3	
HE2002 Intermediate Macroeconomics	EC	3	HE1002/AB9091/HE9091
EG0001 Engineers and Society	GC	3	
<b>Total</b>		<b>22</b>	
<b>YEAR 2 SEMESTER 1</b>			
MA2005 Engineering Graphics	C	3	
MA2006 Engineering Mathematics	C	3	(MH1810 & MH1811)/ MH2812/CY1203
MA2072 Laboratory Experiments (AE)	C	1	
MA2701 Flight Performance	C	2	MA1001 & MA1700
MA3700 Aircraft Structures I	C	3	MA2001
MA3701 Aerodynamics	C	3	MA2003
Economics Elective 1	EPE	3	
ML0003 Kickstart Your Career Success	GC	1	
<b>Total</b>		<b>19</b>	
<b>YEAR 2 SEMESTER 2</b>			
MA2007 Thermodynamics	C	3	MA2003
MA2700 Aerospace Materials & Manufacturing Process	C	3	
MA2079 Engineering Innovation and Design	C	2	Semester 2 with 1 week in Special Term
MA3006 Fluid Mechanics	C	3	MA2003
MA3705 Aerospace Control Theory	C	3	Having Read MA2006
HE2001 Intermediate Microeconomics	EC	3	
<b>Total</b>		<b>17</b>	

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<b>YEAR 3 SEMESTER 1</b>			
MA3003 Heat Transfer	C	3	MA2007
MA3072 Mechanical Experiments	C	1	
MA3702 Aircraft Propulsion	C	3	MA2007
MA3703 Flight Dynamics	C	2	MA2701 & MA3705
MA3704 Aircraft Electrical Devices	C	3	
HE2005 Principles of Econometrics	EC	3	HE1005
MA0218 Introduction to Data Science and Artificial Intelligence	GC	3	
<b>Total</b>		<b>18</b>	
<b>YEAR 3 SEMESTER 2</b>			
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.
<b>Total</b>		<b>10</b>	
<b>YEAR 4 SEMESTER 1</b>			
MA4701 Aircraft Design	C	3	MA3701, MA3702 & MA3703
MA4702 Aircraft Structures II	C	3	MA2001, MA3700 & MA3701
MA4705 Aircraft Navigation and Flight Computers	C	3	MH1811
HE4010 Singapore Economy in a Globalized World	EC	4	HE2001 & HE2002
Economics Elective 2	EPE	3	
Economics Elective 3	EPE	3	
<b>Total</b>		<b>19</b>	
<b>YEAR 4 SEMESTER 2</b>			
HE3021 Intermediate Econometrics	EC	3	HE2005
Economics Elective 4	EPE	3	
Economics Elective 5	EPE	3	
Economics Elective 6	EPE	3	
Economics Elective 7	EPE	3	
HW0288 Engineering Communication	GC	2	HW0188
<b>Total</b>		<b>17</b>	
<b>YEAR 5 SEMESTER 1</b>			
MA4079 Final Year Project	C	4	Year 4 standing, 2 semesters
MA4704 Aeroelasticity	C	3	MA3700 & MA3701
Economics Elective 8	EPE	3	
Economics Elective 9	EPE	4	
Economics Elective 10	EPE	4	
<b>Total</b>		<b>18</b>	
<b>YEAR 5 SEMESTER 2</b>			
MA4079 Final Year Project	C	4	Year 4 standing, 2 semesters
MA48XX Major-PE 1	PE	3	
MA48XX Major-PE 2	PE	3	
Economics Elective 11	EPE	4	
Economics Elective 12	EPE	3	
<b>Total</b>		<b>17</b>	
<b>GRAND TOTAL (Year 1 to 5)</b>		<b>180</b>	