

1. Students need to complete at least 20 cu of level 3 and above courses in the major.
2. Students are strongly advised to follow the proper progression of course level (e.g. level 1 before level 2, and level 2 before level 3 courses).

COMPULSORY - 125 cu													
Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
EAS101 Aerospace Management	5					Y	N	Y	Y	Y	Y		CRN02; Fri; Week 0, 1, 2, 3, 5, 7, 9, 11
EAS105 Introduction to Aerospace Engineering	5				Lab sessions will be conducted in face-to-face mode.	Y	N	Y	Y	Y	Y		CRN03; Wed; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 CRN04; Wed, Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
EAS107 Introduction to Engineering Materials and Aeromaterials	5				Lab sessions will be conducted in face-to-face mode.	Y	N	Y	Y	Y	Y		CRN01; Mon; Week 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 CRN02; Mon, Sat; Week 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
EAS109 Thermo-Fluid Mechanics	5				Lab sessions will be conducted in face-to-face mode.	Y	N	Y	Y	Y	Y		CRN03; Fri; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 CRN04; Fri, Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
EAS201 Aerospace Propulsion	5	EAS105 & EAS109				Y	N	N	Y	N	Y		
EAS203 Fundamentals of Corrosion and Fracture Mechanics	5	EAS107				N	N	Y	N	Y	N		CRN01; Wed; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
EAS301 Aerospace Dynamics	5	EAS201 and (MTH316 or MTH211)				N	N	Y	N	Y	N		CRN01; Mon, Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
EAS303 Aerostructures - Properties and Performance	5	EAS203				Y	N	N	Y	N	Y		
EAS306 Design of Aircraft Electrical Systems and Servomechanisms	5	ENG101 & ENG103	EAS305			Y	Y	N	Y	N	Y		
EAS307 Avionics Systems Design	5	ENG101 & ENG103				N	N	Y	N	Y	N		CRN02; Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
EAS309 Flight Dynamics and Control	5	ENG201 & EAS301				Y	N	N	Y	N	Y		
EAS401 Robotics Mechanics and Control	5	ICT133 and (MTH316 or MTH211)				N	N	Y	N	Y	N		CRN01; Thu; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
EAS439 Numerical Analysis	5	ICT133 and (MTH215 or MTH319 or MTH240)				Y	N	N	Y	N	Y		
EAS499 Capstone Aerospace Engineering Project	10	Must complete 120 cu (excluding SUSS Core courses)	BME499 or ENG499 or MTD499 or ICT499		Compulsory for Honours. Runs over 2 semesters.	Y	N	Y	Y	Y	Y		CRN01; Sat; Week 0
ENG101 Analogue Electronics Design	5				Labs will be conducted on weekends.	Y	N	Y	Y	Y	Y		CRN01; Thu, Sat; Week 1, 3, 5, 7, 9, 11 CRN03; Thu, Sat; Week 1, 3, 5, 7, 9, 11 CRN04; Thu, Sat; Week 1, 3, 5, 7, 9, 11

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ENG103 Digital Electronics Design	5				Labs will be conducted on weekends.	Y	N	Y	Y	Y	Y		CRN01; Thu, Sat; Week 2, 4, 6, 8, 10, 12 CRN03; Thu, Sat; Week 2, 4, 6, 8, 10, 12 CRN04; Thu, Sat; Week 2, 4, 6, 8, 10, 12
ENG201 Linear Systems Analysis and Design	5	ENG101 & ENG103			Labs will be conducted on weekends. Course presented in Jul semester is offered for CETAS/CET EE students only.	Y	N	Y	Y	Y	Y		CRN01; Tue, Sat; Week 2, 4, 6, 8, 10, 12 CRN02; Tue, Sat; Week 2, 4, 6, 8, 10, 12
ENG311 Digital Signal Processing	5	ENG201			Labs will be conducted on weekends. Strongly suggested prerequisite s: ENG201 and ENG203	N	N	Y	N	Y	N		CRN01; Wed, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Wed, Sat; Week 1, 3, 5, 7, 9, 11

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ICT133 Structured Programming	5		ICT271		First, RUN01 is Thursday, RUN02 is Friday, RUN03 is Saturday. Second, Excluded Combination may be removed for students who have completed one of ICT271 and ICT272 upon appeal on a case by case basis.	Y	N	Y	Y	Y	Y		CRN01; Fri; Week 1, 3, 5, 7, 9, 11 CRN02; Thu; Week 1, 3, 5, 7, 9, 11 CRN03; Fri; Week 1, 3, 5, 7, 9, 11
ICT162 Object Oriented Programming	5	ICT133	ICT272		First, RUN01 is Thursday, RUN02 is Friday. Second, Excluded combination may be removed for students who have completed one of ICT271 and ICT272 upon appeal on a case by case basis	Y	N	Y	Y	Y	Y		CRN01; Fri; Week 2, 4, 6, 8, 10, 12 CRN03; Fri; Week 2, 4, 6, 8, 10, 12

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
MTH109 Calculus	5		MTH107			Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 CRN02; Tue; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
MTH240 Engineering Mathematics I	5	MTH107 or MTH109	MTH207, MTH219, MTH319			N	N	Y	N	Y	N		CRN01; Fri; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
MTH316 Multivariable Calculus	5	MTH103 or MTH107 or MTH109	MTH211			Y	N	N	Y	N	Y		
MTH321 Engineering Mathematics II	5	MTH211 or MTH316	MTH215 and MTH217, MTH320			Y	N	N	Y	N	Y		

ELECTIVE (ENGINEERING) - 15 to 25 cu

Students need to complete at least 15 cu of Engineering electives.

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
DSM101 Mathematical Foundations for Data Science	5				Not offered to BSMA & BSHMA students	Y	N	N	Y	N	Y		
DSM301 Fundamentals of Data Science	5	ICT133 or ANL252				Y	N	N	Y	N	Y		
EAS311 A Primer on Aerospace and Aviation@Cranfield	10	EAS301 & EAS303 & EAS309				N	Y	N	N	N	N		
EAS411 Aerospace Vehicles Design	5	EAS301 & EAS309				N	N	Y	N	Y	N		
EAS423 Design and Manufacture of Composites	5	EAS303				Y	N	N	Y	N	Y		

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
EAS435 Manufacturing Systems	5	EAS101				N	N	Y	N	Y	N		CRN01; Thu; Week 1, 3, 5, 7, 9, 11
EAS437 Reliability-Centered Maintenance	5					N	Y	N	N	N	N		
EAS443 Finite Element Analysis of Aerospace Structures	5	EAS439				N	N	Y	N	Y	N		
ENG330 Radar System Applications	5				Labs will be conducted on weekends. Strongly suggested prerequisite s: ENG201 and ENG205.	N	N	Y	N	Y	N		CRN01; Fri; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ENG335 Machine Learning	5	ICT133	ENG313		Labs will be conducted on weekends. Python programming	N	N	Y	N	Y	N		CRN01; Wed; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT302 Generative AI: Theory and Practice	5	ICT133				Y	N	N	Y	N	Y		
MTH212 Statistical Analysis	5		MTH219			Y	N	Y	Y	Y	Y		CRN01; Thu; Week 2, 4, 6, 8, 10, 12 CRN02; Thu; Week 2, 4, 6, 8, 10, 12
MTH355 Basic Mathematical Optimisation	5	MTH319 or MTH211 or MTH240	MTH310			Y	N	N	Y	N	Y		

ELECTIVE (MANAGEMENT) - 0 to 10 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
EAS415 Airport Planning and Management	5	EAS101				Y	N	N	Y	N	Y		
EAS417 Air Transport Management	5	EAS101				N	N	Y	N	Y	N		CRN02; Tue; Week 6, 7, 8, 9, 10, 11
EAS425 Flight Line and Hangar Management	5	EAS101				N	Y	N	N	N	N		
EAS433 Aviation Change Management	5	EAS101				Y	N	N	Y	N	Y		
FMT306 Strategic Asset, Property and Facilities Management	5		FMT305 or EAS427			Y	N	N	Y	N	Y		
HFS303 Safety, Risk and Resilience Engineering	5		EAS429			N	N	Y	N	Y	N		CRN01; Mon, Sat; Week 1, 2, 4, 6, 8, 10, 12
SST102 Human Factors and Systems Design	5		HFS101		Only applicable for AEPML programme students.	Y	N	Y	Y	Y	Y		CRN01; Thu; Week 1, 2, 3, 4, 5, 6, 12 CRN02; Thu; Week 1, 2, 3, 4, 5, 6, 12

- If the presentation status is 'Y' = the course is presenting in the semester, 'N' = the course is not presenting in the semester, 'RT' = the course has been retired and will not be presented again, 'RP' = the course has been replaced and will not be presented again.
- The information listed is subject to review and change.

University Core - SUSS Core Table (2023/07 Intakes onwards)

SUSS CORE COMPULSORY - 10 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
NCO101 Living with Community	5					Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 4, 5, 8, 9, 11 CRN02; Tue, Wed; Week 1, 2, 4, 5, 8, 9, 11 CRN03; Tue, Thu; Week 1, 2, 4, 5, 8, 9, 11 CRN04; Tue; Week 1, 3, 4, 6, 8, 10, 12 CRN05; Tue, Wed; Week 1, 3, 4, 6, 8, 10, 12 CRN06; Tue, Thu; Week 1, 3, 4, 6, 8, 10, 12 CRN07; Thu; Week 1, 3, 4, 6, 8, 10, 12
NCO201 Learn to Learn, Learn for Life	5					Y	N	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Tue; Week 1, 3, 5, 7, 9, 11 CRN03; Wed; Week 1, 3, 5, 7, 9, 11 CRN04; Thu; Week 1, 3, 5, 7, 9, 11 CRN05; Fri; Week 1, 3, 5, 7, 9, 11 CRN06; Fri; Week 1, 3, 5, 7, 9, 11

SUSS CORE ELECTIVES (ENGAGEMENT) - 5 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
SST101 Principles of Project Management	5					Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 3, 4, 5, 6, 12
SST388 STEM Interdisciplinary Project	5		EMT388, FMT388			Y	N	N	Y	N	Y		

SUSS CORE ELECTIVES (PEOPLE) - 5 cu													
Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
NCO111 Work and Learning in a Changing World	2.5					Y	Y	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 2, 3 CRN02; Tue; Week 1, 2, 3 CRN03; Thu; Week 1, 2, 3 CRN04; Fri; Week 1, 2, 3 CRN05; Tue; Week 7, 8, 9 CRN06; Thu; Week 7, 8, 9 CRN07; Fri; Week 7, 8, 9 CRN08; Sat; Week 7, 8, 9
NCO112 Peak Performance	2.5					Y	Y	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 2, 4, 5 CRN02; Tue; Week 1, 2, 4, 5 CRN03; Thu; Week 1, 2, 4, 5 CRN04; Fri; Week 1, 2, 4, 5 CRN06; Tue; Week 7, 8, 10, 11 CRN07; Thu; Week 7, 8, 10, 11 CRN08; Fri; Week 7, 8, 10, 11

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan	May	Jul	Jan	Jul	Jan	Last Presentation	Time Table
						26	26	26	27	27	28		
NCO113 Teamwork in the Modern Workplace	2.5					Y	Y	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 4, 6 CRN02; Thu; Week 1, 2, 4, 6 CRN03; Fri; Week 1, 2, 4, 6 CRN04; Mon; Week 7, 8, 10, 12 CRN05; Tue; Week 7, 8, 10, 12 CRN06; Thu; Week 7, 8, 10, 12 CRN07; Fri; Week 7, 8, 10, 12 CRN08; Sat; Week 7, 8, 10, 12 CRN13; Mon, Sat; Week 1, 2, 4, 6 CRN14; Sat; Week 1, 2, 4, 6
NCO205 User-Centred Design: Human Factors and Design Thinking	5					Y	N	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 3, 5, 6, 7, 11 CRN02; Tue; Week 1, 3, 5, 6, 7, 11 CRN03; Thu; Week 1, 3, 5, 6, 7, 11 CRN04; Fri; Week 1, 3, 5, 6, 7, 11 CRN05; Sat; Week 1, 3, 5, 6, 7, 11 CRN06; Fri; Week 1, 3, 5, 6, 7, 11

Retired/Replaced List

Course	Credit Units	Status	Effective From Semester	Remarks
EAS305 Aircraft Electrical, Instrument Systems/Servomechanisms and Electronics	5	Replaced	2024/07	Replaced by EAS306
EAS441 License Aircraft Engineer Extension Course	20	Retired	2025/01	
MTH107 Calculus I	5	Replaced	2025/01	Replaced by MTH109
MTH219 Fundamentals of Statistics and Probability	5	Replaced	2025/01	Replaced by MTH212
MTH319 Mathematical Methods I	5	Replaced	2025/07	Replaced by MTH240
MTH320 Mathematical Methods II	5	Replaced	2025/01	Replaced by MTH321
OEL302 Overseas Experiential Learning (Shanghai/Hangzhou)	5	Retired	2023/07	