

CURRICULUM FOR BACHELOR OF ENGINEERING (ELECTRICAL & ELECTRONIC)
WITH CN YANG SCHOLARS PROGRAMME
SECOND MAJOR IN SUSTAINABILITY (EESN)
(FIRST YEAR ADMISSION)
AY2025 Intake Onwards

Year of Study	SUMMARY OF ACADEMIC UNIT REQUIREMENT							
	Major Requirements			Interdisciplinary Collaborative Core			BDE	Total AU
Core	CNYSP-Core	MPE	CC	Professional Series (PS)	Care, Serve, Learn			
1	9 [2]	27 [3]	0	2	0	0	3	41 [5]
2	15 [3]	6	0	8	3	3	4	39 [3]
3	14	0	12 [3]	0	6	0	10	42 [3]
4	8	0	9	0	0	0	6	23
Total	46 [5]	33 [3]	21 [3]	10	9	3	23	145 [11]

[] AU of courses that could be used to fulfil Core/MPE requirement and second major requirement concurrently.

YEAR 1 SEMESTER 1						
Course Code	Course Title			Type	AU	Pre-Requisite/Remarks
CY1001	Cell			CNY-Core	3	CNYSP Courses
CY1101	Molecule			CNY-Core	4	
CY1308	Physics			CNY-Core	3	
CY1500	Introduction to Research			CNY-Core	2	
CY1601	Mathematics I			CNY-Core	4	
EG1001^	Engineers in Society			C	2	Double-counted as Practice Core
					18	

YEAR 1 SEMESTER 2						
Course Code	Course Title			Type	AU	Pre-Requisite/Remarks
CY1007^	Climate Change			CNY-Core	3	Double-counted as Planet Core
CY1602	Mathematics II			CNY-Core	4	CNYSP Course
EE1071	EEE Laboratory 1			C	1	
IE1005	From Computational Thinking to Programming			C	3	
IE2104	Digital Electronics			C	3	
CC0015	Health & Wellbeing			CC	2	
	Second Major Compulsory Course 3			BDE	3	Please see attached list of courses to choose from
					19	

YEAR 1 SPECIAL SEMESTER						
Course Code	Course Title			Type	AU	Pre-Requisite/Remarks
CY2003	Research Attachment 3			CNY-Core	4	CNYSP Course
	Overseas Learning Trip					
					4	

YEAR 2 SEMESTER 1						
Course Code	Course Title			Type	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines			CNY-Core	3	CNYSP Course
EE5915	Undergraduate Research			BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
EE2101	Circuit Analysis			C	3	
IE2106	Engineering Mathematics I			C	3	CY1602
CC0006	Sustainability: Society, Economy & Environment			CC	3	
ML0004	Career Design & Workplace Readiness in the V.U.C.A. World			CC	2	
IE0005	Introduction to Data Science and Artificial Intelligence			PS	3	
	Tech-For-Good (T4G)			CSL	3	
					20	

YEAR 2 SEMESTER 2						
Course Code	Course Title			Type	AU	Pre-Requisite/Remarks
CY0002	Ethics			CNY-Core	3	CNYSP Course
EE5915	Undergraduate Research			BDE	4	2-semester long, course registered only in Sem 2
EE2005^	Electrical Devices & Machines			C	3	EE2101 Double-counted as SN Elective
EE2102	Analog Electronics			C	3	EE2101
IE2110	Signals and Systems			C	3	CY1601/CY1602
SP0061	Science & Technology for Humanity			CC	3	

			19	
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YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EE2073	Intro to EEE Design & Project	C	2	
EE2103	Semiconductor Fundamentals	C	3	
IE2108	Data Structures & Algorithms	C	3	
EE3XXX^*	Third Year Technical Elective 1	MPE	3	Choose: EE3015 to double-count as SN
	Third Year Technical Elective 2	MPE	3	
	Profession Preparation	PS	1	
	Second Major Compulsory Course 4	BDE	3	Please see attached list of courses to choose from
			18	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EE3101	Engineering Electromagnetics	C	3	IE2107 (co-req)
EE3180	Design & Innovation Project	C	3	
EE4XXX^*	Final Year Technical Elective	MPE	3	Choose:
	Final Year Design/Technical Elective	MPE	3	
	SN Elective 3	BDE	3	Please see attached list of electives to choose from
	SN Elective 4	BDE	4	
			19	

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EE3910	Professional Attachment	PS	5	Y3 standing, completed ≥4 semesters
			5	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EE4081	CNYSP Overseas Final Year Project	C	8	CNYSP Course
			8	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
	Final Year Design Elective	MPE	3	
	Final Year Technical Elective	MPE	3	
	Final Year Design/Technical Elective	MPE	3	
	Second Major Compulsory Course 5	BDE	3	Please see attached list of courses to choose from
	Second Major Interdisciplinary Project	BDE	3	
			15	
Total AU for Graduation:				145

[^] These courses are double-counted towards both EEE as well as the Second Major in Sustainability

*Students to choose which PE to double count as SN elective. Max number of AUs that can be double counted is 12AUs.

Compulsory Courses and Electives for Second Major in Sustainability
https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_C00