

**C N YANG SCHOLARS' PROGRAMME**  
(Admission to Year 1 from AY2014-2015)

**AU REQUIREMENT TABLE**

STUDY YEAR	MAJOR REQUIREMENTS		GENERAL EDUCATION REQUIREMENTS (GER)					TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	GER-CORE (GC)	GER PRESCRIBED ELECTIVE (GP)			UNRESTRICTED ELECTIVES (UE)	
				LIBERAL ARTS (LA)	SCIENCE, TECH. & SOCIETY (STS)	BUSINESS & MGMT (BM)		
1	32	6	4					42
2	37		1					38
3	18	6	2					26
4	8	13	5					26
ANY YEAR				3	3	3		9
<b>TOTAL</b>	<b>95</b>	<b>25</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>141</b>

**CURRICULUM STRUCTURE**

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE <sup>A</sup>
		LEC	TUT	LAB	TOTAL			
<b>ENGINEERING YEAR 1 – SEMESTER 1</b>								
CY1001 INTRODUCTORY BIOLOGY	C	2	2	0	4	4		
CY1101 PRINCIPLES OF MODERN CHEMISTRY	C	3	1	0	4	4		
CY1201 CALCULUS OF ONE VARIABLE	C	3	1	0.5	4.5	4		REPLACES MH1810
CY1305 MECHANICS	C	2	1	0	3	3		REPLACES PH1011
LABORATORY *	P	0	0	6	6	3		REPLACES FE1073
HW0188 ENGINEERING COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	GC	0	0	0	0	1		
<b>TOTAL</b>		10	7	6.5	23.5	21		
* Choose one from the following two laboratories: <ul style="list-style-type: none"> <li>• CY1102 FUNDAMENTALS TECHNIQUES OF EXPERIMENTAL CHEMISTRY AND BIOLOGICAL CHEMISTRY</li> <li>• CY1304 PHYSICS LABORATORY I</li> </ul>								
<b>YEAR 1 – SEMESTER 2</b>								
CY1202 CALCULUS OF SEVERAL VARIABLES	C	3	1	0.5	4.5	4		REPLACES MH1811
CY1306 ELECTRICITY AND MAGNETISM	C	2	1	0	3	3		REPLACES EE1002
CY1307 RELATIVITY AND QUANTUM PHYSICS	C	2	1	0	3	3		
CY1400 CN YANG SCHOLAR PROG UNDERGRAD RESEARCH EXPERIENCE	P	0	0	9	9	3		
CY1500 INTRODUCTORY RESEARCH METHODOLOGY	C	2	1	0	3	3		
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3		
EE1071 EEE LABORATORY 1	C	0	0	3	3	1		
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
<b>TOTAL</b>		11	5	12.5	28.5	21		
<b>YEAR 2 – SEMESTER 1</b>								
CY1203 LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS	C	2	2	0.5	4.5	4		REPLACES EE2007
FE1008 COMPUTING	C	2	1	0	3	3		
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		CY1202
HY0001 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
<b>TOTAL</b>		13	6	0.5	19.5	20		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE <sup>A</sup>
		LEC	TUT	LAB	TOTAL			
<b>YEAR 2 – SEMESTER 2</b>								
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	CY1201 & CY1202
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
GER PRESCRIBED ELECTIVE 1	GP	2	1	0	3	3		
<b>TOTAL</b>		14.5	5.5	3	23	21		
<b>YEAR 3 – SEMESTER 1</b>								
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	CY1203 <sup>A</sup>
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6.5	2	REFER TO WEBSITE	
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		
EE3XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
ET0001 ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 2	GP	2	1	0	3	3		
<b>TOTAL</b>		12.5	5	6	23.5	20		
<b>YEAR 3 – SEMESTER 2</b>								
EE3179 PROFESSIONAL INTERNSHIP	C	20 WEEKS, FULL-TIME				8	REFER TO WEBSITE	
ML0002 CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1		
<b>TOTAL</b>		-	-	-	-	9		
<b>YEAR 4 – SEMESTER 1</b>								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	REFER TO WEBSITE	
EE4XXX DESIGN ELECTIVE 1	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		
EE4XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
HW0288 ENGINEERING COMMUNICATION II	GC	0	2	0	2	2		HW0188
<b>TOTAL</b>		5	4	15	24	14		
<b>YEAR 4 – SEMESTER 2</b>								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	REFER TO WEBSITE	
EE4XXX DESIGN ELECTIVE 2	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 3	P	2	1	0	3	3		
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
GER PRESCRIBED ELECTIVE 3	GP	2	1	0	3	3		
<b>TOTAL</b>		7	3	15	25	15		
<b>TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION</b>								<b>141</b>

Website reference:

- <http://www.eee.ntu.edu.sg/programmes/currentstudents/undergraduate/undergraduatefull-time/pages/courseinformation.aspx>
- <http://www.ntu.edu.sg/cnyang-scholars/Pages/ProgrammeCurriculum.aspx>