

**CURRICULUM FOR BACHELOR OF SCIENCE (BIOLOGICAL SCIENCES)**  
**WITH CN YANG SCHOLARS PROGRAMME \_Internship**  
**SECOND MAJOR IN SUSTAINABILITY**  
**(FIRST YEAR ADMISSION)**  
**AY2025 Intake Onwards**

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Major Requirements			Interdisciplinary Collaborative Core			BDE	Total AU
	School Core	CNYSP-Core	MPE	CC	Professional Series	Care, Serve, Learn		
1	15	27 [3]	0	4	0	0	0	46 [3]
2	15	6	0	6	3	3	10	43
3	0	0	6	0	11	0	12	29
4	12	0	9	0	0	0	9	30
<b>Total</b>	<b>42</b>	<b>33 [3]</b>	<b>15</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>31</b>	<b>148 [3]</b>

[ ] AU of courses that could be used to fulfil Core 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		
BS1016	Physiology	C	3		
CC0015	Health & Wellbeing	CC	2		
			<b>21</b>		

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	
BS1005	Biochemistry I	C	3		
BS1006	Principles of Genetics	C	3		
BS1007	Molecular and Cell Biology I	C	3		
BS1009	Introduction to Computational Thinking	C	3		
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2		
			<b>21</b>		

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				
			<b>4</b>		

YEAR 2 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course	
BS5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2 2-semester long, course registered only in Sem 2	
BS2002	Microbiology	C	3		
BS2003	Biochemistry II	C	3		
BS2028	Biophysical Methods applied to Biological Sciences	C	3		
BS0004	Introduction to Data Science	PS	3		
SP0061	Science & Technology for Humanity	CC	3		
	Second Major Compulsory Course 2	BDE	3	<a href="#">Please see attached list of core courses to choose from</a>	

Tech-For-Good (T4G)	CSL	3	Replaces Care, Serve and Learn
		24	

### YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSP Course
BS5915	Undergraduate Research	BDE	4	2-semester long, course registered only in Sem 2
BS1100	Molecular and Cell Biology Techniques Level 1	C	3	
BS2004	Molecular and Cell Biology II	C	3	
	Second Major Compulsory Course 3	BDE	3	<a href="#">Please see attached list of core courses to choose from</a>
CC0006	Sustainability: Human, Social, Economics & Environment	CC	3	
			19	

### YEAR 3 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
BSXXXX	School Major PE	MPE	3	
BSXXXX	School Major PE	MPE	3	<a href="#">Choose from Table B</a>
	Second Major Compulsory Course 4	BDE	3	<a href="#">Please see attached list of core courses to choose from</a>
	Second Major Compulsory Course 5	BDE	3	<a href="#">Please see attached list of core courses to choose from</a>
	Second Major Elective 1	BDE	3	<a href="#">Please see attached list of electives to choose from</a>
	Second Major Elective 2	BDE	3	<a href="#">Please see attached list of electives to choose from</a>
MLXXXX	Profession Preparation	PS	1	
			19	

### YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
BS4227	Professional Internship	PS	10	
			10	

### YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY4111	Overseas Final Year Project	C	12	CNYSP Course
			12	

### YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
XXXXXX	School Major PE	MPE	3	
XXXXXX	School Major PE	MPE	3	<a href="#">Choose from Table A</a>
XXXXXX	School Major PE	MPE	3	
XXXXXX	Second Major Elective 3	BDE	3	<a href="#">Please see attached list of electives to choose from</a>
XXXXXX	Second Major Elective 4	BDE	3	<a href="#">Please see attached list of electives to choose from</a>
	Second Major Interdisciplinary Project	BDE	3	
			18	
	Total AU for Graduation :		148	

<sup>^</sup> These courses are double-counted towards both BS as well as the Second Major in Sustainability.

### Compulsory Courses and Electives for Second Major in Sustainability

[https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content\\_C002\\_Col00](https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00)