

BS WITH 2ND MAJOR IN FUTURE FOODS
TRACK 2 (NTU Based)
Suggested study plan for AY2025-26 Intake (BSFTFD)

Single Degree with Second Major Programmes								
Programme	Year of Study	Number of Academic Units (AUs)						
		Major Requirements		Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total
		Core	Major PE	Common Core	Professional Series	Care, Service & Learning		
Biological Sciences with Second Major in Future Foods (Track 2-Local)	1	27		8				35
	2	12	3	6	5	3	12	41
	3		9		11		6	26
	4		21 [6]				9	30
	Total	39	33 [6]	14	16	3	27	132

[] AU of courses that could be used to fulfill both MPE requirement and 2nd major in FTFD requirements concurrently.

Year 1	Sem 1	Type	Course Code	Course Title	AU
		Core	BS1012	Foundations of Chemistry I	3
		Core	BS1016	Physiology	3
		Core	BS1008	Biostatistics	3
		ICC (Common Core)	CC0001	Inquiry & Communication in an Interdisciplinary World	2
		ICC (Common Core)	CC0003	Ethics and Civics in a Multi-Cultural World	2
		ICC (Common Core)	CC0015	Health & Wellbeing	2
				Total	15
Year 1	Sem 2	Type	Course Code	Course Title	AU
		Core	BS1013	Foundations of Chemistry II	3
		Core	BS1005	Biochemistry I	3
		Core	BS1006	Principles of Genetics	3
		Core	BS1007	Molecular and Cell Biology I	3
		Core	BS1009	Introduction to Computational Thinking	3
		Core	BS1100	Molecular and Cell Biology Techniques Level 1	3

		ICC (Common Core)	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2
				Total	20
Year 2	Sem 1	Type	Course Code	Course Title	AU
		Core	BS2002	Microbiology	3
		Core	BS2003	Biochemistry II	3
		Core	BS2028	Instrumentation for the Analysis of Biological Systems	3
		ICC (Professional Series)	BS0004	Introduction to Data Science	3
		ICC (Common Core)	CC0007	Science & Technology for Humanity	3
		BDE	CM5101	Food Chemistry & Nutrition	3
		BDE	NTU Elective	Second Major Elective 1	3
				Total	21
Year 2	Sem 2	Type	Course Code	Course Title	AU
		Core	BS2004	Molecular & Cell Biology II	3
		ICC (Common Core)	CC0006	Sustainability: Society, Economy and Environment	3
		ICC (Professional Series)	HW0218	Communication Across the Sciences	2
		MPE	BSxxxx	MPE 1	3
		BDE	CH5220	Food Standard – Food Safety and Risk Assessment	3
		BDE	NTU Elective	Second Major Elective 2	3
		ICC (Care, Serve, Learn)	TBC	Care, Serve, Learn (CSL)	3
				Total	20
Year 3	Sem 1	Type	Course Code	Course Title	AU
		MPE	BSxxxx	MPE 2	3
		MPE	BSxxxx	MPE 3	3
		MPE	BSxxxx	MPE 4	3
		BDE	NTU Elective	Second Major Elective 3	3
		BDE	NTU Elective	Free BDE or Second Major Elective	3
		ICC (Professional Series)	MLxxxx	Profession Preparation Course	1
				Total	16
Year 3	Sem 2	Type	Course Code	Course Title	AU

		ICC (Professional Series)	BS4227	Professional Internship	10
				Total	10
Year 4	Sem 1	Type	Course Code	Course Title	AU
		MPE	BS4021	**Bi-Semestral FYP	12 (6)
		MPE	BS4010 ^	Synthetic Biology (MPE 5/ Second Major Elective 4)	3
		MPE	BS4015^	Plant Biotechnology (MPE 6/ Second Major Elective 5)	3
		BDE	CH5210	Food Process Technologies and New Production Systems	3
				Total	15
Year 4	Sem 2	Type	Course Code	Course Title	AU
		MPE	BS4021	**Bi-Semestral FYP	12 (6)
		MPE	BSxxxx	MPE 7	3
		BDE	CH5211	Data Analytics in Food Systems	3
		BDE	CH5222	Future Foods – Introduction to Advanced Meat Alternatives	3
				Total	15
				Total AU	132

^ Double Counted to fulfil both MPE and 2nd major in FTFD requirements. For WUR Track, students could only opt for either BS4010 or BS4015.

** BS4021 Bi-Semestral FYP will be carried out across 2 semesters (year 4 semester 1 and 2). Students will be credited a total of 12AU under MPE course type upon completion in year 4 sem 2. (6)AU is an indication that the Bi-Semestral FYP spreads across 2 semesters only.