

**Bachelor of Science (Pharmaceutical Science)
For Cohort AY2021/22 onwards**

University and College Requirements	Major Requirements		Unrestricted Electives
Common Curriculum comprising of 13 courses: <ul style="list-style-type: none"> • Asian Studies • Artificial Intelligence • Communities and Engagement • Digital Literacy • Design Thinking • Humanities • Data Literacy • Scientific Inquiry I • Scientific Inquiry II • Social Sciences • Writing • Two Interdisciplinary Courses of Choice 	Level 1000 (Major 4 Units)	Essential Course <ul style="list-style-type: none"> • PHS1101 The Billion-Dollar Pill – Bench to Bedside Drug Development 	Unrestricted Elective (UEs) e.g. For students interested in research: <ul style="list-style-type: none"> • PHS3288 Undergraduate Research Opportunities Programme in Science (UROPS) in Pharmaceutical Science I • PHS3289 UROPS in Pharmaceutical Science II (https://www.science.nus.edu.sg/undergraduates/undergraduate-research/urops/)
	Level 2000 (Major 24 Units)	Essential Courses <ul style="list-style-type: none"> • PHS2101 Physiology for Pharmaceutical Science • PHS2102 Physicochemical and Biochemical Principles of Drug Action • PHS2103 Essentials of Pharmaceutical and Synthetic Chemistry • PHS2104 Macromolecules in Pharmaceutical Science • PHS2105 Principles of Pharmaceutical Formulations I • PHS2191 Laboratory Techniques in Pharmaceutical Science I 	
	Level 3000 (Major 16 Units)	Essential Courses <ul style="list-style-type: none"> • PHS3101 Principles of Pharmaceutical Formulations II • PHS3102 Principles of Drug Design and Development • PHS3191 Laboratory Techniques in Pharmaceutical Science II • LSM3211 Fundamental Pharmacology 	For students interested in internship -- Undergraduate Professional Internship Programme (UPIP) (https://www.science.nus.edu.sg/undergraduates/internships/upip/) : <ul style="list-style-type: none"> • PHS2310 FOS UPIP 1ST • PHS2312 FOS UPIP 2S1 (12 Units) • PHS2313 FOS UPIP 2S2 (12 Units) • PHS3310 FOS UPIP 2ST • PHS3312 FOS UPIP 3S1 (12 Units) • PHS3313 FOS UPIP 3S2 (12 Units) • PHS4310 FOS UPIP 3ST • PHS4312 FOS UPIP 4S1 (12 Units) • PHS4313 FOS UPIP 4S2 (12 Units)
	Level 4000 (Major 16 Units)	Essential Courses <ul style="list-style-type: none"> • PHS4101 Pharmacokinetics and Biopharmaceutics • PHS4121 Regulation of Healthcare Products Elective Courses (Pass any 8 Units from the following) <ul style="list-style-type: none"> • PHS4201 Microbiology for Pharmaceutical Science • PR4204 Special Drug Delivery • PR4207 Applied Pharmacokinetics and Toxicokinetics • PHS4288 Research Project in Pharmaceutical Science (8 Units) * • PHS4991 Exchange Enrichment Level 4000 	
52 Units +	60 Units +		48 Units +
Minimum required for graduation = 160 Units			

To graduate with a Major in Pharmaceutical Science, student must have read and passed at least one of the following:

- (1) PHS3288/PHS3288R or
- (2) PHS4288* or
- (3) Any UPIP/FASSIP course
- (4) Any NOC Internship Course

*PHS4288 can be double-counted towards major requirements.

(Updated: 12 May 2023)