

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 StudiesArtificial IntelligenceCommunities and EngagementDigital LiteracyDesign ThinkingHumanitiesData LiteracyScientific Inquiry IScientific Inquiry IISocial SciencesWritingTwo 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.
	Level 2000 (Major 24 Units)	Essential Courses <ul style="list-style-type: none">PHS2101 Physiology for Pharmaceutical SciencePHS2102 Physicochemical and Biochemical Principles of Drug ActionPHS2103 Essentials of Pharmaceutical and Synthetic ChemistryPHS2104 Macromolecules in Pharmaceutical SciencePHS2105 Principles of Pharmaceutical Formulations IPHS2191 Laboratory Techniques in Pharmaceutical Science I	For students interested in research: <ul style="list-style-type: none">PHS3288 Undergraduate Research Opportunities Programme in Science (UROPs) in Pharmaceutical Science IPHS3289 UROPs in Pharmaceutical Science II (https://www.science.nus.edu.sg/undergraduates/undergraduate-research/urops/)
	Level 3000 (Major 16 Units)	Essential Courses <ul style="list-style-type: none">PHS3101 Principles of Pharmaceutical Formulations IIPHS3102 Principles of Drug Design and DevelopmentPHS3191 Laboratory Techniques in Pharmaceutical Science IILSM3211 Fundamental Pharmacology	For students interested in internship -- Undergraduate Professional Internship Programme (UPIP) (https://www.science.nus.edu.sg/undergraduates/internships/upip/) :
	Level 4000 (Major 16 Units)	Essential Courses <ul style="list-style-type: none">PHS4101 Pharmacokinetics and BiopharmaceuticsPHS4121 Regulation of Healthcare Products Elective Courses (Pass any 8 Units from the following) <ul style="list-style-type: none">PHS4201 Microbiology for Pharmaceutical SciencePR4204 Special Drug DeliveryPR4205 Bioorganic Principles of Medicinal Chemistry #PR4207 Applied Pharmacokinetics and ToxicokineticsPHS4288 Research Project in Pharmaceutical Science (8 Units) *PHS4991 Exchange Enrichment Level 4000	<ul style="list-style-type: none">PHS2310 FOS UPIP 1STPHS2312 FOS UPIP 2S1 (12 Units)PHS2313 FOS UPIP 2S2 (12 Units)PHS3310 FOS UPIP 2STPHS3312 FOS UPIP 3S1 (12 Units)PHS3313 FOS UPIP 3S2 (12 Units)PHS4310 FOS UPIP 3STPHS4312 FOS UPIP 4S1 (12 Units)PHS4313 FOS UPIP 4S2 (12 Units)
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 Course**
- (4) Any NOC Internship Course

* PHS4288 can be double-counted towards major requirements.

** Students who have passed a FASSIP course before switching to a primary major in Pharmaceutical Science would be deemed to have fulfilled this requirement.

To be confirmed.

(Updated: 2 July 2025)