

**National University of Singapore
BSc (Pharmaceutical Science) (Honours) programme**

Sample Study Plan

** Note that the minimum workload per semester is 18 MCs, except in graduating semester or during UPIP (refer to NUS undergraduate [workload](#)).*

Year 1	Sem 1	PHS1101[^] The Billion-Dollar Pill – Bench to Bedside Drug Development (4 MC)	Pair 1 (Odd): HSA1000 Asian Interconnections (4MC) # Pair 2 (Even): HSS1000 Understanding Social Complexity (4MC) #	Pair 1 (Odd): HSH1000 The Human Condition (4MC) # Pair 2 (Even): HS11000 How Science Works, Why Science Works (4MC) #	Pair 1 (Odd): GEA1000 Quantitative Reasoning with Data (4MC) # Pair 2 (Even): DTK1234 Design Thinking (4MC) #	UE 1
	Sem 2	PHS2102 Physicochemical and Biochemical Principles of Drug Action (4 MC)	Pair 1 (Odd): HSS1000 Understanding Social Complexity (4MC) # Pair 2 (Even): HSA1000 Asian Interconnections (4MC) #	Pair 1 (Odd): HS11000 How Science Works, Why Science Works (4MC) # Pair 2 (Even): HSH1000 The Human Condition (4MC) #	Pair 1 (Odd): DTK1234 Design Thinking (4MC) # Pair 2 (Even): GEA1000 Quantitative Reasoning with Data (4MC) #	Writing
Year 2	Sem 1	PHS2101 Physiology for Pharmaceutical Science (4 MC)	PHS2103 Essentials of Pharmaceutical and Synthetic Chemistry (4 MC)	Digital Literacy	UE 2	UE 3
	Sem 2	PHS2104 Macromolecules in Pharmaceutical Science (4 MC)	PHS2105 Principles of Pharmaceutical Formulations I (4 MC)	PHS2191 Laboratory Techniques in Pharmaceutical Science I (4 MC)	Artificial Intelligence	Scientific Inquiry II
Year 3	Sem 1	PHS3101 Principles of Pharmaceutical Formulations II (4 MC)	PHS3191 Laboratory Techniques in Pharmaceutical Science II (4 MC)	Interdisciplinary I	Communities and Engagement	UE 4
	Sem 2	PHS3102 Principles of Drug Design and Development (4 MC)	LSM3211 Fundamental Pharmacology (4 MC)	Interdisciplinary II	UE 5	UE 6
Year 4	Sem 1	PHS4101 Pharmacokinetics and Biopharmaceutics (4 MC)	PHS4121 Regulation of Healthcare Products (4 MC)	PHS/PR420x * Elective (4 MC)	UE 7	UE 8
	Sem 2	PHS/PR420x * Elective (4 MC)	UE 9	UE 10	UE 11	UE 12

Note: Students have to complete all CHS Common Curriculum modules in their first two years except for the following 3 modules:

- Communities and Engagement module – can be taken from Years 2 to 4
- Two Interdisciplinary modules – can be taken in Years 3 and 4

Key:

- Major Requirements (15 modules) (60 MCs) – Module marked by ^ will be offered in both semesters. For modules marked by *, students can choose to read two 4-MC electives or one 8-MC research project.
- CHS Common Curriculum (13 modules) (52 MCs) – Modules marked by # will be pre-allocated.
- Unrestricted Electives (12 modules) (48 MCs)

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

- (1) PHS3288 or
- (2) PHS4288 or
- (3) Any UPIP/FASSIP module

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Sample Study Plan with Life Sciences Minor

*** Note that the minimum workload per semester is 18 MCs, except in graduating semester or during UPIP (refer to NUS undergraduate [workload](#)).**

Year 1	Sem 1	PHS1101[^] The Billion-Dollar Pill – Bench to Bedside Drug Development (4 MC)	Pair 1 (Odd): HSA1000 Asian Interconnections (4MC) [#] Pair 2 (Even): HSS1000 Understanding Social Complexity (4MC) [#]	Pair 1 (Odd): HSH1000 The Human Condition (4MC) [#] Pair 2 (Even): HSI1000 How Science Works, Why Science Works (4MC) [#]	Pair 1 (Odd): GEA1000 Quantitative Reasoning with Data (4MC) [#] Pair 2 (Even): DTK1234 Design Thinking (4MC) [#]	Writing
	Sem 2	PHS2102 Physicochemical and Biochemical Principles of Drug Action (4 MC)	Pair 1 (Odd): HSS1000 Understanding Social Complexity (4MC) [#] Pair 2 (Even): HSA1000 Asian Interconnections (4MC) [#]	Pair 1 (Odd): HSI1000 How Science Works, Why Science Works (4MC) [#] Pair 2 (Even): HSH1000 The Human Condition (4MC) [#]	Pair 1 (Odd): DTK1234 Design Thinking (4MC) [#] Pair 2 (Even): GEA1000 Quantitative Reasoning with Data (4MC) [#]	LSM1111 Biological Challenges and Opportunities for Humankind
Year 2	Sem 1	PHS2101 Physiology for Pharmaceutical Science (4 MC)	PHS2103 Essentials of Pharmaceutical and Synthetic Chemistry (4 MC)	Digital Literacy	LSM21XX/22XX (excluding LSM2288, LSM2289)	UE 1
	Sem 2	PHS2104 Macromolecules in Pharmaceutical Science (4 MC)	PHS2105 Principles of Pharmaceutical Formulations I (4 MC)	PHS2191 Laboratory Techniques in Pharmaceutical Science I (4 MC)	Artificial Intelligence	Scientific Inquiry II
Year 3	Sem 1	PHS3101 Principles of Pharmaceutical Formulations II (4 MC)	PHS3191 Laboratory Techniques in Pharmaceutical Science II (4 MC)	Communities and Engagement	LSM32XX/42XX (excluding LSM3289, LSM4288x)	LSM32XX/42XX (excluding LSM3289, LSM4288x)
	Sem 2	PHS3102 Principles of Drug Design and Development (4 MC)	LSM3211 Fundamental Pharmacology (4 MC)	Interdisciplinary I	LSM22XX/32XX/42XX (excluding LSM2288, LSM2289, LSM3289, LSM4288x)	UE 2
Year 4	Sem 1	PHS4101 Pharmacokinetics and Biopharmaceutics (4 MC)	PHS4121 Regulation of Healthcare Products (4 MC)	PHS/PR420x[*] Elective (4 MC)	Interdisciplinary II	UE 3
	Sem 2	PHS/PR420x[*] Elective (4 MC)	UE 4	UE 5	UE 6	UE 7

Note: Students have to complete all CHS Common Curriculum modules in their first two years except for the following 3 modules:

- Communities and Engagement module – can be taken from Years 2 to 4
- Two Interdisciplinary modules – can be taken in Years 3 and 4

Key:

- Major Requirements (15 modules) (60 MCs) – Module marked by [^] will be offered in both semesters. For modules marked by ^{*}, students can choose to read two 4-MC electives or one 8-MC research project.
- CHS Common Curriculum (13 modules) (52 MCs) – Modules marked by # will be pre-allocated.
- Life Sciences Minor (5 modules) (20 MCs)
- Unrestricted Electives (7 modules) (28 MCs)

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- (1) PHS3288 or
- (2) PHS4288 or
- (3) Any UPIP/FASSIP module

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Sample Study Plan with Forensic Science Minor

** Note that the minimum workload per semester is 18 MCs, except in graduating semester or during UPIP (refer to NUS undergraduate [workload](#)).*

Year 1	Sem 1	PHS1101[^] The Billion-Dollar Pill – Bench to Bedside Drug Development (4 MC)	Pair 1 (Odd): HSA1000 Asian Interconnections (4MC) # Pair 2 (Even): HSS1000 Understanding Social Complexity (4MC) #	Pair 1 (Odd): HSH1000 The Human Condition (4MC) # Pair 2 (Even): HSI1000 How Science Works, Why Science Works (4MC) #	Pair 1 (Odd): GEA1000 Quantitative Reasoning with Data (4MC) # Pair 2 (Even): DTK1234 Design Thinking (4MC) #	UE 1
	Sem 2	PHS2102 Physicochemical and Biochemical Principles of Drug Action (4 MC)	Pair 1 (Odd): HSS1000 Understanding Social Complexity (4MC) # Pair 2 (Even): HSA1000 Asian Interconnections (4MC) #	Pair 1 (Odd): HSI1000 How Science Works, Why Science Works (4MC) # Pair 2 (Even): HSH1000 The Human Condition (4MC) #	Pair 1 (Odd): DTK1234 Design Thinking (4MC) # Pair 2 (Even): GEA1000 Quantitative Reasoning with Data (4MC) #	Writing
Year 2	Sem 1	PHS2101 Physiology for Pharmaceutical Science (4 MC)	PHS2103 Essentials of Pharmaceutical and Synthetic Chemistry (4 MC)	Digital Literacy	FSC2101 Forensic Science	UE 2
	Sem 2	PHS2104 Macromolecules in Pharmaceutical Science (4 MC)	PHS2105 Principles of Pharmaceutical Formulations I (4 MC)	PHS2191 Laboratory Techniques in Pharmaceutical Science I (4 MC)	Artificial Intelligence	Scientific Inquiry II
Year 3	Sem 1	PHS3101 Principles of Pharmaceutical Formulations II (4 MC)	PHS3191 Laboratory Techniques in Pharmaceutical Science II (4 MC)	Interdisciplinary I	Communities and Engagement	UE 3
	Sem 2	PHS3102 Principles of Drug Design and Development (4 MC)	LSM3211 Fundamental Pharmacology (4 MC)	Interdisciplinary II	UE 4	FSC3101 Evidence in Forensic Science
Year 4	Sem 1	PHS4101 Pharmacokinetics and Biopharmaceutics (4 MC)	PHS4121 Regulation of Healthcare Products (4 MC)	PHS/PR420x * Elective (4 MC)	FSC420X or CM/FST/LSM/MA/ PC/PR/ST/ZB3288	FSC420X or CM/FST/LSM/MA/ PC/PR/ST/ZB3288
	Sem 2	PHS/PR420x * Elective (4 MC)	UE 5	UE 6	FSC420X or CM/FST/LSM/MA/ PC/PR/ST/ZB3288	UE 7

Note: Students have to complete all CHS Common Curriculum modules in their first two years except for the following 3 modules:

- Communities and Engagement module – can be taken from Years 2 to 4
- Two Interdisciplinary modules – can be taken in Years 3 and 4

Key:

Major Requirements (15 modules) (60 MCs) – Module marked by ^ will be offered in both semesters. For modules marked by *, students can choose to read two 4-MC electives or one 8-MC research project.

CHS Common Curriculum (13 modules) (52 MCs) – Modules marked by # will be pre-allocated.

Forensic Science Minor (5 modules) (20 MCs)

Unrestricted Electives (7 modules) (28 MCs)

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

- (1) PHS3288 or
- (2) PHS4288 or
- (3) Any UPIP/FASSIP module