

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

Sample Study Plan

*** Note that the minimum workload per semester is 18 units, 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 units)	Pair 1 (Odd): HSA1000 Asian Interconnections (4 units) # Pair 2 (Even): HSS1000 Understanding Social Complexity (4 units) #	Pair 1 (Odd): HSH1000 The Human Condition (4 units) # Pair 2 (Even): HSI1000 How Science Works, Why Science Works (4 units) #	Pair 1 (Odd): GEA1000 Quantitative Reasoning with Data (4 units) # Pair 2 (Even): DTK1234 Design Thinking (4 units) #	UE 1
	Sem 2	PHS2102 Physicochemical and Biochemical Principles of Drug Action (4 units)	Pair 1 (Odd): HSS1000 Understanding Social Complexity (4 units) # Pair 2 (Even): HSA1000 Asian Interconnections (4 units) #	Pair 1 (Odd): HSI1000 How Science Works, Why Science Works (4 units) # Pair 2 (Even): HSH1000 The Human Condition (4 units) #	Pair 1 (Odd): DTK1234 Design Thinking (4 units) # Pair 2 (Even): GEA1000 Quantitative Reasoning with Data (4 units) #	Writing
Year 2	Sem 1	PHS2101 Physiology for Pharmaceutical Science (4 units)	PHS2103 Essentials of Pharmaceutical and Synthetic Chemistry (4 units)	Digital Literacy	UE 2	UE 3
	Sem 2	PHS2104 Macromolecules in Pharmaceutical Science (4 units)	PHS2105 Principles of Pharmaceutical Formulations I (4 units)	PHS2191 Laboratory Techniques in Pharmaceutical Science I (4 units)	Artificial Intelligence	Scientific Inquiry II
Year 3	Sem 1	PHS3101 Principles of Pharmaceutical Formulations II (4 units)	PHS3191 Laboratory Techniques in Pharmaceutical Science II (4 units)	PHS4101 Pharmacokinetics and Biopharmaceutics (4 units)	Interdisciplinary I	Communities and Engagement
	Sem 2	PHS3102 Principles of Drug Design and Development (4 units)	LSM3211[^] Fundamental Pharmacology (4 units)	Interdisciplinary II	UE 4	UE 5
Year 4	Sem 1	PHS4121 Regulation of Healthcare Products (4 units)	PHS/PR420x * Elective (4 units)	UE 6	UE 7	UE 8
	Sem 2	PHS/PR420x * Elective (4 units)	UE 9	UE 10	UE 11	UE 12

Note:

- Students are strongly encouraged to complete all CHS Common Curriculum courses in their first two years except for the following 3 courses:
 - Communities and Engagement course – can be taken from Years 2 to 4[‡]
 - Two Interdisciplinary courses – can be taken in Years 3 and 4
- Actual pre-allocation pairings of CHS Common Curriculum courses can be found [here](#).

‡ Important note on workload: Semester vs. Year-long C&E courses

- Some C&E courses, usually the field/project-work courses, are regular intense 4-Unit courses with work completed within one semester.
- Other C&E courses, especially the service-work courses, are spread out over two consecutive semesters, or up to one year, that is, Semester 1 through Semester 2 to Special Term 2; or Semester 2 through the Special Terms to Semester 1 of following Academic Year (AY). You may click here for more details on the service-work courses.
- For those students who read the year-long C&E courses which extend till Special Term (during the summer break) after their 8th semester, please note that grades are awarded at the end of Special Term 2, which means your degree will be conferred in end-Aug, and you will join the Commencement ceremony in the following year instead of the same AY of completion of the course. For more details, please check out the FAQ [here](#).
- As such, students who prefer to take such year-long C&E courses instead of semester-long courses (where the latter might have limited capacity in each semester) are encouraged to plan in advance. You may do so by including the C&E course in your study plan earlier in your candidature; for example, during Year 2 of study.
- This would allow students to plan for other enrichment programmes (such as Student Exchange programmes, NOC and/or UPIP/Internships) during Year 3 instead of delaying this requirement to Year 4 when students will need to devote time for their job search in the final semester as they complete the remaining graduation requirements.
- For more enquiries, please check out the [FAQ](#), or email the C&E team at AskCnE@nus.edu.sg.

Key:

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

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

- PHS3288/PHS3288R or
- PHS4288* or
- Any UPIP/FASSIP course
- Any NOC internship course

*** PHS4288 can be double-counted towards major requirements.**