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

Sample Study Plan with Life Sciences Minor

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): HSH1000 The Human Condition (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): HSS1000 Understanding Social Complexity (4 units) #	Pair 1 (Odd): GEA1000 Quantitative Reasoning with Data (4 units) # Pair 2 (Even): DTK1234 Design Thinking (4 units) #	Writing
	Sem 2	**PHS2102** Physicochemical and Biochemical Principles of Drug Action (4 units)	Pair 1 (Odd): HSA1000 Asian Interconnections (4 units) # Pair 2 (Even): HSH1000 The Human Condition (4 units) #	Pair 1 (Odd): HSS1000 Understanding Social Complexity (4 units) # Pair 2 (Even): HSI1000 How Science Works, Why Science Works (4 units) #	Pair 1 (Odd): DTK1234 Design Thinking (4 units) # Pair 2 (Even): GEA1000 Quantitative Reasoning with Data (4 units) #	LSM1111 Biological Challenges and Opportunities for Humankind
Year 2	**Sem 1**	**PHS2101** Physiology for Pharmaceutical Science (4 units)	**PHS2103** Essentials of Pharmaceutical and Synthetic Chemistry (4 units)	Digital Literacy	LSM21XX/22XX (excluding LSM2288, LSM2289)	UE 1
	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)	Communities and Engagement	LSM32XX/42XX (excluding LSM3289, LSM4288x)
	Sem 2	**PHS3102** Principles of Drug Design and Development (4 units)	**LSM3211^** Fundamental Pharmacology (4 units)	Interdisciplinary I	LSM22XX/32XX/ 42XX (excluding LSM2288, LSM2289, LSM3289, LSM4288x)	LSM32XX/42XX (excluding LSM3289, LSM4288x)
Year 4	**Sem 1**	**PHS4121** Regulation of Healthcare Products (4 units)	**PHS/PR420x *** Elective (4 units)	Interdisciplinary II	UE 2	UE 3
	Sem 2	**PHS/PR420x *** Elective (4 units)	UE 4	UE 5	UE 6	UE 7

Note:
1) 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
2) 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 here, or email the C&E team at AskCnE@nus.edu.sg.

Key:
- Major Requirements (15 courses) (60 units) – Course 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.
- Life Sciences Minor (5 courses) (20 units)
- Unrestricted Electives (7 courses) (28 units)

To graduate with a Primary 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.**

(Updated: 11 Sep 2025)