

NUS LIFE SCIENCES UNDERGRADUATE PROGRAMME BSC (HONS)/BSC DEGREE IN LIFE SCIENCES (For Cohorts AY2018/19)

REQUIREMENTS	MODULES INVOLVED (FOR COHORT AY2018/19)	MODULAR CREDITS [BSc(Hons)]	MODULAR CREDITS [BSc]
General Education	Pass <u>one</u> module for each of the five Pillars: GER1000 – Quantitative Reasoning GEH1XXX – Human Cultures GES1XXX – Singapore Studies GET1XXX – Thinking and Expression GEQ1000 – Asking Questions	20	20
Computational Thinking	•		4
Science Communication	Pass SP1541 Exploring Science Communication through Popular Science [If pursuing BSc (Hons) and precluded from taking SP1541, please read one module from any Science subject group except LSM-prefixed modules.]	4	4
Life Sciences Major Level 1000	Pass LSM1102, LSM1105, LSM1106, CM1401 and ST1232. [If a precluding module to CM1401 (i.e. CM1121 or CM1402 or CM1501) is passed, the precluding module is accepted to be fulfilling the Major in Life Sciences in lieu of CM1401.]	20	20
Life Sciences Major Level 2000	Pass LSM2191 and <u>three</u> LSM22xx elective modules (except LSM2288 and LSM2289). (<i>Refer to Page 3.</i>)	16	16
Life Sciences Major Level 3000	Pass <u>two</u> LSM32xx (except LSM3289); and Pass <u>two</u> LSM32xx/LSM42xx/LSM-recognised elective modules (except LSM3289 and LSM4299) (<i>Refer to Page 3.</i>)	16	16
Life Sciences Major Level 4000 [For BSc (Hons)]	Pass 32MC of LSM4xxx (<i>refer to Page 3.</i>), of which to include either LSM4199 or LSM4299 but not both: <u>Honours Research Project Option</u> Pass LSM4199 Honours Project in Life Sciences, AND pass another <u>four</u> LSM42xx elective modules. <u>Optional: To fulfil a Specialisation</u> Complete 24MC including LSM4199 Honours Project in Life Sciences AND two LSM42xx elective modules from the corresponding list for the chosen specialisation. (<i>Refer to Page 3.</i>) <u>Applied Internship Project Option</u> Pass LSM4299 Applied Project in Life Sciences, AND pass another <u>four</u> LSM42xx elective modules.	32	_
Unrestricted Elective Modules	Pass sufficient modules to meet the degree requirements. [These modules can be those for requirements	48 [typically 12	40 [typically 10
	of Minor, Second Major or other enrichment programmes.]	modules]	modules]

• Refer to Page 3 for the list of LSM-prefixed elective modules and LSM-recognised elective modules.

• Refer to Page 4 for typical schedule of completion (i.e., study plan) of BSc (Hons) degree in Life Sciences.

• For details on LSM modules, refer to https://www.dbs.nus.edu.sg/education/lifesciences/#lsmodules.

To qualify for Honours year, students must fulfil the Life Sciences Major Requirements at BSc standard (i.e. Levels 1000, 2000 and 3000 Major Requirements), and obtained a minimum overall CAP of 3.20 on completion of 100MC (Modular Credits) or more.

The number of MC earned from Level 1000 modules for graduation requirements is capped at 60. Excluding CFG1010 Roots and Wings (2MC), CFG1002 Career Catalyst (2MC), ES1103 English for Academic Purposes (4MC) and DYOM.

http://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students/degreerequirements

Computational Thinking Requirements for Life Sciences Major:

CS50 Introduction to Computer Science from edX can fulfil the Computational Thinking Requirements but cannot be used to satisfy the Faculty Requirements (i.e., this DYOM serves only as Unrestricted Elective Module). Please refer to the following for details and subject groupings: <u>https://www.science.nus.edu.sg/wp-</u>

content/uploads/2021/06/ComputationalThinkingRequirement.pdf

Faculty Requirements for Life Sciences Major:

Please refer to the following for details and subject groupings: https://www.science.nus.edu.sg/wp-content/uploads/2019/11/FacultyRequirements.pdf

CM1401 and ST1232 satisfy 8MC of the Faculty Requirements. DO NOT read ST1131 or ST2334.

Modules to fulfil Faculty Requirements:

- Module 1: CM1401 [4MC; recognised as Major Requirements]
- Module 2: ST1232 [4MC; recognised as Major Requirements]
- Module 3: Either CS1010 (or a variant of CS1010) or COS2000 for Computational Thinking [4MC]
- Module 4 [For BSc (Hons)]: SP1541 Exploring Science Communication through Popular Science (if precluded from taking SP1541, please read 1 module from any Science subject group except LSM-prefixed module) [4MC]

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List of LSM-Recognised Elective Modules

	Other LSM-Prefixed Modules		Faculty of Engineering
LSM3991	Exchange Enrichment Module	CN4247R	Enzyme Technology
		CN4249	Engineering Design in Molecular Biotechnology
	Faculty of Science	CN5172	Biochemical Engineering
CM3221	Organic Synthesis: The Disconnection Approach	MT4002	Technology Management Strategy
CM3222	Organic Reaction Mechanisms		
CM3225	Biomolecules		Saw Swee Hock School of Public Health
CM3251	Nanochemistry	SPH3101	Biostatistics for Public Health
CM3261	Environmental Chemistry	SPH3102	Public Health Communication
CM4227	Chemical Biology	SPH3104/	Infectious disease epidemiology and public health
PR3116	Concepts in Pharmacokinetics and	SPH3202	
	Biopharmaceutics	SPH3001/	Public Health Practice
PR4205	Bioorganic Principles of Medicinal Chemistry	SPH3201	
ZB4171	Advanced Topics in Bioinformatics	SPH3501	Introduction to Public Health Communication
	Faculty of Arts and Social Sciences		School of Business
PL3232	Biological Psychology	BSN3701	Technological Innovation (also coded as TR3008/A)
PL3233	Cognitive Psychology	BSN3712	Innovation and Intellectual Property

NUS LIFE SCIENCES UNDERGRADUATE PROGRAMME BSC (HONS)/BSC DEGREE IN LIFE SCIENCES (For Cohorts AY2018/19 onwards)

Schedule for Completion of BSc (Hons) in Life Sciences – Cohort AY2018/19 onwards

Typical Study Plan for students reading Life Sciences as Primary Major. Numbers in [] are Modular Credits (MC).

	Semester	Life Sciences Major Modules	Other Graduation Requirements
YEAR 1	1 st Semester (Sem 1) & 2 nd Semester (Sem 2)	 LSM1102 Molecular Genetics [4] LSM1106 Molecular Cell Biology [4] LSM1105 Evolutionary Biology [4] ST1232 Statistics for Life Sciences [4] CM1401 Chemistry for Life Sciences [4] [If a precluding module to CM1401 (i.e. CM121 or CM1402) is passed, the precluding module is accepted in lieu of CM1401.] 	General Education: GER1000 - Quantitative Reasoning [4] GEQ1000 - Asking Questions [4] GEH1XXX - Human Cultures [4] GES1XXX - Singapore Studies [4]
YEAR 2	^{3™} Semester (Sem 1) & 4 th Semester (Sem 2)	LSM2191 Laboratory Techniques in Life Sciences [4] Pass <u>3</u> LSM22xx (except LSM2288/9) [3x4=12]	GET1XXX – Thinking and Expression [4] Faculty Requirements: Either CS1010 (or its variant) or COS2000 for Computational Thinking Requirement [4]
YEAR 3	5 th Semester (Sem 1) & 6 th Semester (Sem 2)	Pass <u>2</u> LSM32xx (except LSM3289) [2x4=8] Pass <u>2</u> LSM32xx/LSM42xx/LSM- recognised elective modules (except LSM3289 and LSM4299) [2x4=8]	SP1541 Exploring Science Communication through Popular Science (if precluded, please read 1 module from any Science subject group except LSM-prefixed modules) [4] Unrestricted Elective Modules (UEM):
YEAR 4	^{7th} Semester (Sem 1) & 8 th Semester (Sem 2)	□ Pass 32MC of LSM4xxx, of which must include either LSM4199 or LSM4299 but not both. □ both. □	 - 48MC or typically 12 modules

Note: The number of MC earned from Level 1000 modules for graduation requirements is capped at 60 (typically 15 modules). Excluding CFG1010 Roots and Wings (2MC), CFG1002 Career Catalyst (2MC), ES1103 English for Academic Purposes (4MC) and DYOM.