

BSc (Hons) / BSc in Life Sciences (For Matriculation Cohort AY2012/2013)

Along with the University Level and Faculty Requirements and Unrestricted Elective Modules, to be awarded a BSc (Hons) or BSc in Life Sciences, candidates must satisfy the following:

	Life Sciences Major Requirements (For Matriculation Cohort AY2012/2013)	Cumulative Major MCs (Modular Credits)
Level 1000	Pass LSM1101, LSM1102, LSM1103, LSM1104, CM1401* and ST1232*.	24
Level 2000	Pass LSM2101, LSM2102, LSM2103, LSM2201A or LSM2202A or LSM2203, and LSM2241 or LSM2251.	44
Level 3000	Pass five LSM32XX elective modules (except LSM3289), one of which may be a LSM-recognised elective module (up to 4 MCs).	64
Level 4000 [For BSc (Hons)]	Pass the Honours Year Project LSM4199, and four LSM42XX elective modules. To be conferred one of the three specialisations (BMS/MCB/EVB), LSM4199 and at least two of the four LSM42XX elective modules have to be listed with chosen specialisation.	96

	BSc	BSc (Hons)
University Level Requirements	20 MCs	20 MCs
Faculty Requirements	4 MCs*	8 MCs*
Major Requirements	64 MCs	96 MCs
Unrestricted Elective Modules	32 MCs	36 MCs
Total	120 MCs	160 MCs

To qualify for Honours year and LSM4199, students must fulfill 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 100 MCs (Modular Credits) or more.

Note: The number of MCs earned from Level 1000 modules for graduation requirements is capped at 60.

Faculty Requirements for Life Sciences Major:

Please refer to the following web page for details and subject groupings:

<http://www.science.nus.edu.sg/undergraduate-studies/ugreq/curriculum-structure/186-undergraduate/ugreq/curriculum-structure/212-facreq>

* Faculty Requirements are at 12 MCs (BSc) and 16 MCs (BSc (Hons)) respectively. Major modules CM1401 and ST1232 satisfy 8 MCs of the Faculty Requirements. **DO NOT read ST1131 or ST2334.**

Modules that can be used to fulfill Faculty Requirements:

Module 1: CM1401 (4 MCs; counted into Major Requirements)

Module 2: ST1232 (4 MCs; counted into Major Requirements)

Module 3: 1 module from Physical Sciences OR Computing Sciences OR Multidisciplinary & Interdisciplinary Sciences subject group (4 MCs)

Module 4 [for BSc (Hons)]: 1 module from any subject group except LSM-prefixed modules (4 MCs)

To be awarded at BSc (Hons) level a primary major in Life Sciences, candidates must satisfy the following
[For Matriculation Cohort AY2012/2013]:

Level	Life Sciences Major Requirements (For Matriculation Cohort AY2012/2013)	Cumulative Major MCs
Level 1000 (24MCs)	Pass all LSM1101 Biochemistry of Biomolecules LSM1102 Molecular Genetics LSM1103 Biodiversity LSM1104 General Physiology CM1401 Chemistry for Life Sciences ST1232 Statistics for Life Sciences	24
Level 2000 (20MCs)	Pass all LSM2101 Metabolism and Regulation LSM2102 Molecular Biology LSM2103 Cell Biology Pass 1 LSM2201A Experimental Biochemistry LSM2202A Experimental Molecular and Cell Biology LSM2203 Experimental Microbiology Pass 1 LSM2241 Introductory Bioinformatics LSM2251 Ecology and Environment	44
Level 3000 (20MCs)	Pass 5 LSM32XX elective modules (except LSM3289), one of which may be a LSM-recognised elective module (up to 4MCs). LSM3201 Research and Communication in Life Sciences LSM3211 Fundamental Pharmacology LSM3212 Human Physiology: Cardiopulmonary System LSM3214 Human Physiology – Hormones and Health LSM3215 Neuronal Signaling and Memory Mechanisms LSM3216 Neuronal Development and Diseases LSM3217 Human Ageing LSM3221 Human Pharmacology LSM3223 Immunology LSM3224 Molecular Basis of Human Diseases LSM3225 Molecular Microbiology in Human Diseases LSM3231 Protein Structure and Function LSM3232 Microbiology LSM3233 Developmental Biology LSM3241 Bioinformatics and Biocomputing LSM3242 Applied Microbiology LSM3243 Molecular Biophysics LSM3245 RNA Biology and Technology LSM3252 Evolution and Comparative Genomics LSM3254 Ecology of Aquatic Environments LSM3255 Ecology of Terrestrial Environments LSM3256 Tropical Horticulture LSM3257 Quantitative Methods for Ecological Research LSM3261 Life Form and Function LSM3262 Environmental Animal Physiology LSM3263 Field Studies in Neotropical Ecosystems LSM3264 Environmental Biochemistry LSM3265 Entomology LSM3266 Avian Biology and Evolution LSM3267 Behavioural Biology LSM3272 Global Change Biology LSM3288 Advanced UROPS in Life Sciences I	64

Level 4000 (32MCs)	Pass the Honours Year Project LSM4199, and 4 LSM42XX elective modules.		96	
	To be conferred one of the three specialisations (BMS/MCB/EVB), LSM4199 and at least 2 of the 4 LSM42XX elective modules have to be listed with chosen specialisation.			
	LSM4199	Honours Project in Life Sciences		
	LSM4211	Toxicology		Biomedical Science (BMS)
	LSM4212	Pharmacogenetics and Drug Responses		
	LSM4213	System Neurobiology		
	LSM4214	Cancer Pharmacology		
	LSM4215	Extreme Physiology		
	LSM4221	Drug Discovery and Clinical Trials		
	LSM4222	Advanced Immunology		
	LSM4223	Advances in Antimicrobial Strategies		
	LSM4225	Genetic Medicine in the Post-Genomic Era		
	LSM4226	Infection and Immunity		
LSM4227	Stem Cell Biology			
LSM4231	Structural Biology	Molecular and Cell Biology (MCB)		
LSM4232	Advanced Cell Biology			
LSM4234	Mechanobiology			
LSM4235	Nuclear Mechanics and Genome Regulation			
LSM4241	Functional Genomics			
LSM4242	Protein Engineering			
LSM4243	Tumour Biology			
LSM4244	Oncogenes and Signal Transduction			
LSM4245	Epigenetics and Chromatin Biology			
LSM4251	Plant Growth and Development			
LSM4252	Animal Reproduction			
LSM4254	Principles of Taxonomy and Systematics	Environmental Biology (EVB)		
LSM4255	Methods in Mathematical Biology			
LSM4261	Marine Biology			
LSM4262	Tropical Conservation Biology			
LSM4263	Field Studies in Biodiversity			
LSM4264	Freshwater Biology			
LSM4265	Urban Ecology			
LSM4266	Aquatic Biodiversity			
LSM4267	Animal Communications & Sensory Ecology			

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