

Computational Biology Study Plan

For students without 'A' Level Physics

(For Student Cohort of AY2006/07 and AY2007/08)

<p>Semester 1 (24 MC)</p> <p>SSxxxx Singapore Studies GEMxxx (Unrestricted) CM1121 Basic Organic Chemistry PC1221 Fundamentals Physics I MA1101R Linear Algebra I MA1102R Calculus</p>	<p>Semester 2 (21 MC)</p> <p>GEMxxx (Unrestricted) CS1101C Programming Methodology LSM1101 Biochemistry Of Biomolecules LSM1102 Molecular Genetics PC1222 Fundamentals Of Physics II</p>
<p>Semester 3 (22 MC)</p> <p>CS1102C Data Structures and Algorithms LSM2101 Metabolism and Regulation *LSM2201 Experimental Biochemistry *LSM2104 Essential Bioinformatics And Biocomputing MA2213 Numerical Analysis 1 1 Breadth module outside Faculty</p>	<p>Semester 4 (21 MC)</p> <p>LSM2102 Molecular Biology *MA2214 Combinatorial Analysis PC1432 Physics IIE ST2131 Probability 1 Level 3000 elective</p>
<p>Semester 5 (24 MC)</p> <p>CS2102 Database Systems LSM3231 Protein Structure and Function PC2267 Biophysics I ST3236 Stochastic Process I ST2132 Mathematical Statistics</p>	<p>Semester 6 (20 MC)</p> <p>CZ3252 /LSM3241 Bioinformatics & Biocomputing MA3259 Mathematical Methods in Genomics 2 Unrestricted electives 1 Level 3000 elective</p>
<p>Semester 7 (16 MC)</p> <p>ZB4199 Honours Project CZ5225 Modelling and Simulation in Biology LSM4241 Functional Genomics 1 Level 4000 elective</p>	<p>Semester 8 (16 MC)</p> <p>ZB4199 Honours Project CZ5226 Advanced Bioinformatics 1 Level 4000 elective 1 Unrestricted elective</p>

Total MC = 164

* LSM2201 Experimental Biochemistry (in Sem 1) or LSM2202 Experimental Molecular Cell Biology (in Sem 2)

* MA2214 Combinatorial Analysis (Sem 2) or CS1231 Discrete Structures (both Sem)

* LSM2104 Essential Bioinformatics and Biocomputing (both Sem) or CS2220 Introduction to Computational Biology (in Sem 2)