/ Bioinformatics (BINFE1)

T1 Entry 2025 Sample Plan

Year 1	
Term 1	**COMP1511** Programming Fundamentals
	MATH1131 Mathematics 1A **OR**

Year 2	
Term 1	**COMP2521** Object-Oriented Design & Programming
	COMP2041 Software Construction: Techniques and Tools
Term 2	**COMP2511** Object-Oriented Design & Programming
	MATH2801 Theory of Statistics OR **MATH2901** Higher Theory of Statistics
	BABS2202 Molecular Cell Biology 1 OR **BIOC2101** Principles of Biochemistry (Advanced)*
Term 3	**BINF2010** Introduction to Bioinformatics
	BIOC2201 Principles of Molecular Biology (Advanced)
	SCIF1000 Skills in Science

Year 3	
Term 1	**BABS3121** Molecular Biology of Nucleic Acids OR **BABS3291**

Bachelor of Science / Computer Science (3789)

Computer Science (COMPA1) Bioinformatics (BINFE1)

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 2	**COMP1511** Programming Fundamentals	**COMP2521** Data Structures and Algorithms	**BINF3010** Applied Bioinformatics	**Science Elective**
	CHEM1011 Chemistry 1A: Atoms, Molecules and Energy	**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics	**Science Elective**	**Computing Elective**
	SCIF0000 (0 UoC) Introduction to University	**BABS2202** Molecular Cell Biology 1 OR **BIOC2101** Principles of Biochemistry (Advanced)*	**Employability Experience Course**	**Employability Experience Course**
Term 3	**MATH1131** Mathematics 1A **OR** **MATH1141** (Higher) Mathematics 1A	**BINF2010** Introduction to Bioinformatics	**BINF3020** Computational Bioinformatics	**COMP4920** Professional Issues and Ethics in Information Technology
	COMP1531 Software Engineering Fundamentals	**BIOC2201** Principles of Molecular Biology (Advanced)	**Computing Elective**	**Computing Elective**
	BABS1201 Molecules, Cells and Genes	**SCIF1000** Skills in Science	**Computing Elective**	**Science Elective**
Term 1	**COMP1521** Computer Systems Fundamentals	**COMP2041** Software Construction: Techniques and Tools	**BABS3121** Molecular Biology of Nucleic Acids OR **BABS3291** Genes, Genomes and Evolution^	**COMP3900** Computer Science Project
	MATH1081 Discrete Mathematics	**COMP2511** Object-Oriented Design & Programming	**Computing Elective**	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis
	MATH1231 Mathematics 1B OR **MATH1241** (Higher) Mathematics 1B			**SCIF3010** (0 UoC) Graduation Portfolio

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

All Level 1 and Level 2 courses are offered in each standard term and electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take electives first and take core courses in later terms.

COMP1511 is expected to be completed by the end of Term 2 Year 1. Students don't need to take COMP1521, COMP1531 and COMP2521 in sequence. Most Computing Electives require completion of COMP2521, students are recommended to complete COMP2521 in the first year of study if possible.