

Engineering

Bachelor of Engineering (Honours) (3707)

[Bioinformatics Engineering \(BINFAH\)](#)

T1 Entry 2024 Sample Plan



NOTES

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

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



| Year 1 | | Year 2 | | Year 3 | | Year 4 | |
|--------|---|--------|--|--------|---|--------|-----------------|
| Term 3 | COMP1511 Programming Fundamentals | Term 3 | BIOC2201 Principles of Molecular Biology (Advanced) | Term 3 | COMP2511 Object-Oriented Design and Programming | Term 3 | COMP4951 |
| | DESN1000 Engineering Design and Innovation | | MATH1081 Discrete Mathematics | | BINF3020 Computational Bioinformatics | | |
| | BABS1201 Molecules, Cells and Genes | | BINF2010 Introduction to Bioinformatics | | BABS2204 <u>OR</u> BABS2264 | | |
| Term 1 | MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A | Term 1 | PHYS1111 Fundamentals of Physics <u>OR</u> PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A | Term 1 | BABS3121 Molecular Biology of Nucleic Acids | | |
| | COMP1531 Software Engineering Fundamentals | | COMP2521 Data Structures and Algorithms | | COMP3311 Database Systems | | |
| | CHEM1011 Chemistry 1A <u>OR</u> CHEM1031 Higher Chemistry 1A | | | | Free Elective Course | | |
| Term 2 | MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B | Term 2 | COMP2041 Software Construction: Techniques and Tools | Term 2 | COMP3121 Algorithms and Programming Techniques | | |
| | COMP1521 Computer Systems Fundamentals | | DESN2000 Engineering Design & Professional Practice | | MATH2801 Theory of Statistics <u>OR</u> MATH2901 Higher Theory of Statistics | | |
| | | | BINF3010 Applied Bioinformatics | | | | |