# Engineering

# Bachelor of Engineering (Honours) (3707)

## Bioinformatics Engineering (BINFAH)

## T1 Entry 2023 Sample Plan

| | Year 1 | | Year 2 | | Year 3 | | Year 4 |
|---|---|---|---|---|---|---|---|
| **Term 1** | **BABS1201** Molecules, Cells and Genes | **Term 1** | **COMP1531** Software Engineering Fundamentals | **Term 1** | **COMP3121** Algorithms and Programming Techniques | **Term 1** | **COMP4951** Research Thesis A (4 UoC) |
| | **COMP1511** Programming Fundamentals | | **COMP2521** Data Structures and Algorithms | | **BABS3121** Molecular Biology of Nucleic Acids | | **Discipline Elective Course** |
| | **MATH1131 OR MATH1141** (Higher) Mathematics 1A | | **CHEM1011 OR CHEM1031** (Higher) Chemistry 1A | | **Free Elective Course** | | **General Education Course** |
| **Term 2** | **MATH1231 OR MATH1241** (Higher) Mathematics 1B | **Term 2** | **DESN2000** Engineering Design & Professional Practice | **Term 2** | **MATH2801 OR MATH2901** (Higher) Theory of Statistics | **Term 2** | **COMP4952** Research Thesis B (4 UoC) |
| | **PHYS1111 OR PHYS1121 OR PHYS1131** (Higher) Physics 1A | | **COMP2041** Software Construction: Techniques and Tools | | **BINF3010** Applied Bioinformatics | | **Discipline Elective Course** |
| | **COMP1521** Computer Systems Fundamentals | | **COMP2511** Object-Oriented Design and Programming | | **BABS2202 OR BIOC2101** | | **Free Elective Course** |
| **Term 3** | **DESN1000** Engineering Design and Innovation | **Term 3** | **BINF2010** Introduction to Bioinformatics | **Term 3** | **BINF3020** Computational Bioinformatics | **Term 3** | **COMP4953** Research Thesis C (4 UoC) |
| | **MATH1081** Discrete Mathematics | | **BIOC2201** Principles of Molecular Biology (Advanced) | | **COMP3311** Database Systems | | **COMP4920** Professional Issues and Ethics in Information Technology |
| | | | | | | | **General Education Course** |

| NOTES | Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999 |
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| | **This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.** |

# Engineering

# Bachelor of Engineering (Honours) (3707)

## Bioinformatics Engineering (BINFAH)

## T2 Entry 2023 Sample Plan

UNSW SYDNEY

| | Year 1 | | Year 2 | | Year 3 | | Year 4 |
|---|---|---|---|---|---|---|---|
| **Term 2** | **COMP1511** Programming Fundamentals | **Term 2** | **CHEM1011** Chemistry 1A | **Term 2** | **DESN2000** Engineering Design & Professional Practice | **Term 2** | **COMP4951** Research Thesis A (4 UoC) |
| | **MATH1131** Mathematics 1A | | **COMP2041** Software Construction: Techniques & Tools | | **MATH2801 OR MATH2901** (Higher) Theory of Statistics | | **Free Elective Course** |
| | | | **COMP1521** Computer Systems Fundamentals | | **BINF3010** Applied Bioinformatics | | **Discipline Elective Course** |
| **Term 3** | **BABS1201** Molecules, Cells and Genes | **Term 3** | **PHYS1111 OR PHYS1121 OR PHYS1131** (Higher) Physics 1A | **Term 3** | **BABS2204 OR BABS2264** | **Term 3** | **COMP4952** Research Thesis B (4 UoC) |
| | **MATH1231** Mathematics 1B | | **BINF2010** Introduction to Bioinformatics | | **BINF3020** Computational Bioinformatics | | **General Education Course** |
| | **DESN1000** Engineering Design and Innovation | | **BIOC2201** Principles of Molecular Biology (Advanced) | | **Discipline Elective Course** | | **COMP4920** Professional Issues and Ethics in Information Technology |
| **Term 1** | **COMP2521** Data Structures and Algorithms | **Term 1** | **COMP2511** Object-Oriented Design and Programming | **Term 1** | **BABS3121** Molecular Biology of Nucleic Acids | **Term 1** | **COMP4953** Research Thesis C (4 UoC) |
| | **MATH1081** Discrete Mathematics | | **COMP3121** Algorithms and Programming Techniques | | **COMP3311** Database Systems | | **General Education Course** |
| | **COMP1531** Software Engineering Fundamentals | | | | | | **Free Elective Course** |

**NOTES**

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

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# Engineering

# Bachelor of Engineering (Honours) (3707)

## Bioinformatics Engineering (BINFAH)

## T3 Entry 2023 Sample Plan

UNSW SYDNEY

| | 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** Research Thesis A (4 UoC) |
| | **DESN1000** Engineering Design and Innovation | | **MATH1081** Discrete Mathematics | | **BINF3020** Computational Bioinformatics | | **Discipline Elective Course** |
| | **BABS1201** Molecules, Cells and Genes | | **BINF2010** Introduction to Bioinformatics | | **BABS2204** OR **BABS2264** | | **COMP4920** Professional Issues and Ethics in Information Technology |
| Term 1 | **MATH1131** OR **MATH1141** (Higher) Mathematics 1A | Term 1 | **PHYS1111** OR **PHYS1121** OR **PHYS1131** (Higher) Physics 1A | Term 1 | **BABS3121** Molecular Biology of Nucleic Acids | Term 1 | **COMP4952** Research Thesis B (4 UoC) |
| | **COMP1531** Software Engineering Fundamentals | | **COMP2521** Data Structures and Algorithms | | **COMP3311** Database Systems | | **General Education Course** |
| | **CHEM1011** OR **CHEM1031** (Higher) Chemistry 1A | | | | **Free Elective Course** | | **Discipline Elective Course** |
| Term 2 | **MATH1231** OR **MATH1241** (Higher) Mathematics 1B | Term 2 | **COMP2041** Software Construction: Techniques and Tools | Term 2 | **COMP3121** Algorithms and Programming Techniques | Term 2 | **COMP4953** Research Thesis C (4 UoC) |
| | **COMP1521** Computer Systems Fundamentals | | **DESN2000** Engineering Design & Professional Practice | | **MATH2801** OR **MATH2901** (Higher) Theory of Statistics | | **General Education Course** |
| | | | **BINF3010** Applied Bioinformatics | | | | **Free Elective Course** |

**NOTES**

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

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