

Bachelor Engineering (Honours) - 3707 - Bioinformatics Engineering - BINFAH - T2 2026 Start

Program: Engineering (Honours) [3707]

Year 1 Term 2

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
MATH1131 Mathematics 1A		6
<i>PHYS1111 or PHYS1121 or PHYS1131</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
BABS1201 Molecules, Cells and Genes		6
DESN1000 Introduction to Engineering Design and Innovation		6
MATH1231 Mathematics 1B	MATH1131	6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
COMP2521 Data Structures and Algorithms	COMP1511	6
MATH1081 Discrete Mathematics		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
CHEM1011 Chemistry 1A: Atoms, Molecules and Energy		6
COMP1521 Computer Systems Fundamentals	COMP1511	6
COMP2041 Software Construction: Techniques and Tools	COMP1511	6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
BINF2010 Introduction to Bioinformatics	BABS1201	6
BIOC2201 Principles of Molecular Biology (Advanced)	CHEM1011, BABS1201	6
COMP1531 Software Engineering Fundamentals	COMP1511	6

Year 3 Term 1

Course or Activity	Prerequisites	Credits
COMP2511 Object-Oriented Design and Programming	COMP2521, COMP1531	6

COMP3121 Algorithm Design and Analysis	MATH1081, COMP2521	6
--	--------------------	---

Year 3 Term 2

Course or Activity	Prerequisites	Credits
BINF3010 Applied Bioinformatics	BIOC2201	6
DESN2000 Engineering Design and Professional Practice	COMP2521, DESN1000, COMP1511, COMP1521	6
<i>MATH2801 or MATH2901</i>		6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
BINF3020 Computational Bioinformatics	BINF2010, COMP2041	6
<i>BABS2264 or BABS2202 or BIOC2101 or MICR2011 or BABS2204</i>		6
<i>Discipline Electives</i>		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
BABS3121 Molecular Biology of Nucleic Acids	BIOC2201	6
COMP3311 Database Systems	COMP2521	6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
COMP4951 Research Thesis A		4
<i>Free Electives</i>		6
<i>Discipline Electives</i>		6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
COMP4920 Professional Issues and Ethics in Information Technology		6
COMP4952 Research Thesis B	COMP4951	4
<i>General Education</i>		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
COMP4953 Research Thesis C	COMP4952	4
ENGG4999 Industrial Training		0
<i>Free Electives</i>		6
<i>General Education</i>		6