

## 2020 Study Plan Template

### Bachelor of Computer Science (Artificial Intelligence) (Honours)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 144 units of study according to the official Bachelor of Information Technology course rule available at

<https://students.flinders.edu.au/my-course/course-rules/undergrad/bcscaih>

Students are responsible for planning their Core, Option and Table C topics ahead to ensure they meet the topic prerequisites.

A list of all topics, including topic prerequisite information and alternate study period availabilities, is available at [Topics 2020](#).

Key:	
Core Topic	Compulsory topic
Option Topic	A choice from a list of specified topics
Minor Topic	Choice of 6 minors in the BCS(Artificial Intelligence)
Table C Topic	A choice from topics listed in Table C ( <a href="http://www.flinders.edu.au/courses/rules/undergrad/se_elec/table-c.cfm">http://www.flinders.edu.au/courses/rules/undergrad/se_elec/table-c.cfm</a> )

**\*Please read your chosen minor course rule carefully. In some programs it will be appropriate to defer core topics to a later year as students are encouraged to take first year topics from the minor in first year to ensure they can satisfy minor prerequisites. Please seek course advice via Ask Flinders if you need further assistance.**

**MINOR Human Intelligence Semester 1, 2020 start:**

Year 1	S1	<b>COMP1002</b> Fundamentals of Computational Intelligence (4.5 units)	<b>MATH1121</b> Mathematics 1A (4.5 units)	Human Intelligence Minor: <b>PSYC1101</b> Psychology 1A (4.5 units)	Human Intelligence Minor: Option: <b>PSYC1106</b> or <b>SPTH1506</b>
	S2	<b>COMP1102</b> Computer Programming 1 (4.5 units)	<b>COMP1711</b> Database Modelling and Knowledge Engineering (4.5 units)	Human Intelligence Minor: <b>PSYC1102</b> Psychology 1B (4.5 units)	<b>ENGR1762</b> Networks and Cybersecurity (4.5 units)
Year 2	S1	<b>ENGR2881</b> Computer Networks (4.5 units)	<b>COMP2781</b> Computer Mathematics (4.5 units)	<b>COMP2711</b> Computer Programming 2 (4.5 units)	<b>STAT1121</b> Data Science (4.5 units)
	S2	<b>COMP2772</b> Web-Based Systems Development (4.5 units)	<b>COMP2712</b> Heuristic Optimisation (4.5 units)	<b>COMP2812</b> Operating Systems (4.5 units)	<b>ENGR1401</b> Professional Skills (4.5 units)
Year 3	S1	<b>COMP3712</b> Computer Programming 3 (4.5 units)	<b>COMP3721</b> Enterprise Information Security (4.5 units)	<b>COMP3722</b> Theory and Practice of Computation (4.5 units)	Human Intelligence Minor: Year 3 option: <b>PSYC2020</b> If you wish to undertake <b>PSYC2021</b> (S2 topic) swap it with <b>ENGR1401</b>
	NS1	~ <b>ENGR3750</b> Workplace Preparation (0 units) ( <i>only if COMP3792 is being undertaken</i> )			
	S2	<b>COMP3742</b> Intelligent Systems (4.5 units)	<b>ENGR3704</b> (NS2) Project Management for Engineering and Science (4.5 units)	<b>COMP3792</b> Information Technology Practicum (9 units) and ~ <b>ENGR3750</b> Workplace Preparation (0 units) (NS1) OR <b>COMP3782</b> Information Technology Project (4.5 units) and <b>Table C Topic</b> (4.5 units)	
Year 4	S1	<b>COMP7700A</b> Honours thesis (4.5units/22.5units)	<b>COMP7700B</b> Honours thesis (4.5units/22.5units)	<b>STEM7001</b> Honours Research Methods (4.5 units)	Year 4 Option topic
	S2	<b>COMP7700C</b> Honours thesis (4.5units/22.5units)	<b>COMP7700D</b> Honours thesis (4.5units/22.5units)	<b>COMP7700E</b> Honours thesis (4.5units/22.5units)	Year 4 Option topic

**MINOR Multimodal Semester 1, 2020 start:**

Year 1	S1	<b>COMP1002</b> Fundamentals of Computational Intelligence (4.5 units)	<b>MATH1121</b> Mathematics 1A (4.5 units)	<b>STAT1121</b> Data Science (4.5 units)	<b>ENGR1401</b> Professional Skills (4.5 units) S1 or S2	Multimodal minor: Year 1 topic options
	S2	<b>COMP1102</b> Computer Programming 1 (4.5 units)	<b>COMP1711</b> Database Modelling and Knowledge Engineering (4.5 units)	<b>ENGR1762</b> Networks and Cybersecurity (4.5 units)		
Year 2	S1	<b>ENGR2881</b> Computer Networks (4.5 units)	<b>COMP2781</b> Computer Mathematics (4.5 units)	Multimodal Minor: <b>SPTH1506</b> Linguistics and Phonetics	<b>COMP2711</b> Computer Programming 2 (4.5 units) S1 or S2	Multimodal minor: Year 2 topic options
	S2	<b>COMP2772</b> Web-Based Systems Development (4.5 units)	<b>COMP2712</b> Heuristic Optimisation (4.5 units)	<b>COMP2812</b> Operating Systems (4.5 units)		
Year 3	S1	<b>COMP3712</b> Computer Programming 3 (4.5 units)	<b>COMP3721</b> Enterprise Information Security (4.5 units)	<b>COMP3722</b> Theory and Practice of Computation (4.5 units)	Multimodal Minor <b>COMP3751</b> Interactive Computer Systems	
	NS1	~ <b>ENGR3750</b> Workplace Preparation (0 units) ( <i>only if COMP3792 is being undertaken</i> )				
	S2	<b>COMP3742</b> Intelligent Systems (4.5 units)	<b>ENGR3704</b> (NS2) Project Management for Engineering and Science (4.5 units)	<b>COMP3792</b> Information Technology Practicum (9 units) and ~ <b>ENGR3750</b> Workplace Preparation (0 units) (NS1) <u>OR</u> <b>COMP3782</b> Information Technology Project (4.5 units) and <b>Table C Topic</b> (4.5 units)		
Year 4		<b>COMP7700A</b> Honours thesis (4.5units/22.5units)	<b>COMP7700B</b> Honours thesis (4.5units/22.5units)	<b>STEM7001</b> Honours Research Methods (4.5 units)	Year 4 Option topic	
		<b>COMP7700C</b> Honours thesis (4.5units/22.5units)	<b>COMP7700D</b> Honours thesis (4.5units/22.5units)	<b>COMP7700E</b> Honours thesis (4.5units/22.5units)	Year 4 Option topic	

**MINOR Research Methods Semester 1, 2020 start:**

Year 1	S1	<b>COMP1002</b> Fundamentals of Computational Intelligence (4.5 units)	<b>COMP1102</b> Computer Programming 1 (4.5 units)	<b>STAT1121</b> Data Science (4.5 units)	<b>MATH1121</b> Mathematics 1A (4.5 units)	
	S2	<b>ENGR1401</b> Professional Skills (4.5 units) S1 or S2	<b>COMP1711</b> Database Modelling and Knowledge Engineering (4.5 units)	<b>ENGR1762</b> Networks and Cybersecurity (4.5 units)	Research Methods Minor <b>MATH1122</b> Mathematics 1B	
Year 2	S1	<b>ENGR2881</b> Computer Networks (4.5 units)	<b>COMP2781</b> Computer Mathematics (4.5 units)	Research Methods Minor: <b>MATH2702</b> or <b>MATH2711</b>	<b>COMP2711</b> Computer Programming 2 (4.5 units) S1 or S2	Research Methods minor: Year 2 topic options
	S2	<b>COMP2772</b> Web-Based Systems Development (4.5 units)	<b>COMP2712</b> Heuristic Optimisation (4.5 units)	<b>COMP2812</b> Operating Systems (4.5 units)		
Year 3	S1	<b>COMP3712</b> Computer Programming 3 (4.5 units)	<b>COMP3721</b> Enterprise Information Security (4.5 units)	<b>COMP3722</b> Theory and Practice of Computation (4.5 units)	Research Methods Minor Year 3 topic options (please seek course advice early in your course if you want to undertake a S2 option topic)	
	NS1	~ <b>ENGR3750</b> Workplace Preparation (0 units) ( <i>only if COMP3792 is being undertaken</i> )				
	S2	<b>COMP3742</b> Intelligent Systems (4.5 units)	<b>ENGR3704</b> (NS2) Project Management for Engineering and Science (4.5 units)	<b>COMP3792</b> Information Technology Practicum (9 units) and ~ <b>ENGR3750</b> Workplace Preparation (0 units) (NS1) <u>OR</u> <b>COMP3782</b> Information Technology Project (4.5 units) and <b>Table C Topic</b> (4.5 units)		
Year 4		<b>COMP7700A</b> Honours thesis (4.5units/22.5units)	<b>COMP7700B</b> Honours thesis (4.5units/22.5units)	<b>STEM7001</b> Honours Research Methods (4.5 units)	Year 4 Option topic	
		<b>COMP7700C</b> Honours thesis (4.5units/22.5units)	<b>COMP7700D</b> Honours thesis (4.5units/22.5units)	<b>COMP7700E</b> Honours thesis (4.5units/22.5units)	Year 4 Option topic	

**MINOR Robotic Intelligence Semester 1, 2020 start:**

Year 1	S1	<b>COMP1002</b> Fundamentals of Computational Intelligence (4.5 units)	<b>ENGR1401</b> Professional Skills (4.5 units)	<b>STAT1121</b> Data Science (4.5 units)	<b>MATH1121</b> Mathematics 1A (4.5 units)	
	S2	<b>COMP1102</b> Computer Programming 1 (4.5 units)	<b>COMP1711</b> Database Modelling and Knowledge Engineering (4.5 units)	<b>ENGR1762</b> Networks and Cybersecurity (4.5 units)	Robotic Intelligence Minor <b>ENGR1201</b> Electronics	
Year 2	S1	<b>ENGR2881</b> Computer Networks (4.5 units)	<b>COMP2781</b> Computer Mathematics (4.5 units)	Robotic Intelligence Minor: Year 2 topic option	<b>COMP2711</b> Computer Programming 2 (4.5 units) S1 or S2	Robotic Intelligence Minor: Year 2 topic option
	S2	<b>COMP2772</b> Web-Based Systems Development (4.5 units)	<b>COMP2712</b> Heuristic Optimisation (4.5 units)	<b>COMP2812</b> Operating Systems (4.5 units)		
Year 3	S1	<b>COMP3712</b> Computer Programming 3 (4.5 units)	<b>COMP3721</b> Enterprise Information Security (4.5 units)	<b>COMP3722</b> Theory and Practice of Computation (4.5 units)	Robotic Intelligence Minor: Year 3 topic option	
	NS1	~ <b>ENGR3750</b> Workplace Preparation (0 units) ( <i>only if COMP3792 is being undertaken</i> )				
	S2	<b>COMP3742</b> Intelligent Systems (4.5 units)	<b>ENGR3704</b> (NS2) Project Management for Engineering and Science (4.5 units)	<b>COMP3792</b> Information Technology Practicum (9 units) and ~ <b>ENGR3750</b> Workplace Preparation (0 units) (NS1) <u>OR</u> <b>COMP3782</b> Information Technology Project (4.5 units) and <b>Table C Topic</b> (4.5 units)		
Year 4		<b>COMP7700A</b> Honours thesis (4.5units/22.5units)	<b>COMP7700B</b> Honours thesis (4.5units/22.5units)	<b>STEM7001</b> Honours Research Methods (4.5 units)	Year 4 Option topic	
		<b>COMP7700C</b> Honours thesis (4.5units/22.5units)	<b>COMP7700D</b> Honours thesis (4.5units/22.5units)	<b>COMP7700E</b> Honours thesis (4.5units/22.5units)	Year 4 Option topic	

**MINOR SensoriMotor Intelligence Semester 1, 2020 start:**

Year 1	S1	<b>COMP1002</b> Fundamentals of Computational Intelligence (4.5 units)	<b>MATH1121</b> Mathematics 1A (4.5 units)	<b>STAT1121</b> Data Science (4.5 units)	SensoriMotor Intelligence Minor: <b>BIOL1102</b> Molecular Basis of Life
	S2	<b>COMP1102</b> Computer Programming 1 (4.5 units)	<b>COMP1711</b> Database Modelling and Knowledge Engineering (4.5 units)	<b>ENGR1762</b> Networks and Cybersecurity (4.5 units)	<b>ENGR1401</b> Professional Skills (4.5 units)
Year 2	S1	<b>ENGR2881</b> Computer Networks (4.5 units)	<b>COMP2781</b> Computer Mathematics (4.5 units)	SensoriMotor Intelligence Minor: <b>MMED2933</b> Fundamental Neuroscience (4.5 units)	SensoriMotor Intelligence Minor: <b>PSYC1106</b> or <b>SPTH1506</b>
	S2	<b>COMP2772</b> Web-Based Systems Development (4.5 units)	<b>COMP2712</b> Heuristic Optimisation (4.5 units)	<b>COMP2812</b> Operating Systems (4.5 units)	<b>COMP2711</b> Computer Programming 2 (4.5 units)
Year 3	S1	<b>COMP3712</b> Computer Programming 3 (4.5 units)	<b>COMP3721</b> Enterprise Information Security (4.5 units)	<b>COMP3722</b> Theory and Practice of Computation (4.5 units)	SensoriMotor Intelligence Minor Year 3 option: <b>COMP3751</b> or <b>MMED3930</b> or <b>MMED3931</b> S2 topic (take Table C here and <b>MMED3931</b> in S2)
	NS1	~ <b>ENGR3750</b> Workplace Preparation (0 units) ( <i>only if COMP3792 is being undertaken</i> )			
	S2	<b>COMP3742</b> Intelligent Systems (4.5 units)	<b>ENGR3704</b> (NS2) Project Management for Engineering and Science (4.5 units)	<b>COMP3792</b> Information Technology Practicum (9 units) and ~ <b>ENGR3750</b> Workplace Preparation (0 units) (NS1) OR <b>COMP3782</b> Information Technology Project (4.5 units) and <b>Table C Topic</b> (4.5 units)	
Year 4		<b>COMP7700A</b> Honours thesis (4.5units/22.5units)	<b>COMP7700B</b> Honours thesis (4.5units/22.5units)	<b>STEM7001</b> Honours Research Methods (4.5 units)	Year 4 Option topic
		<b>COMP7700C</b> Honours thesis (4.5units/22.5units)	<b>COMP7700D</b> Honours thesis (4.5units/22.5units)	<b>COMP7700E</b> Honours thesis (4.5units/22.5units)	Year 4 Option topic

**MINOR Serious Games Semester 1, 2020 start:**

Year 1	S1	<b>COMP1002</b> Fundamentals of Computational Intelligence (4.5 units)	<b>MATH1121</b> Mathematics 1A (4.5 units)	<b>STAT1121</b> Data Science (4.5 units)	Serious Games Minor: <b>COMP1701</b> Simulation and Serious Game Design	
	S2	<b>COMP1102</b> Computer Programming 1 (4.5 units)	<b>COMP1711</b> Database Modelling and Knowledge Engineering (4.5 units)	<b>ENGR1762</b> Networks and Cybersecurity (4.5 units)		<b>ENGR1401</b> Professional Skills (4.5 units)
Year 2	S1	<b>ENGR2881</b> Computer Networks (4.5 units)	<b>COMP2781</b> Computer Mathematics (4.5 units)	<b>COMP2711</b> Computer Programming 2 (4.5 units)	Serious Games Minor: <b>SPTH1506</b> Linguistics and Phonetics	
	S2	<b>COMP2772</b> Web-Based Systems Development (4.5 units)	<b>COMP2712</b> Heuristic Optimisation (4.5 units)	<b>COMP2812</b> Operating Systems (4.5 units)		Serious Games Minor <b>COMP3752</b> or <b>COMP3802</b>
Year 3	S1	<b>COMP3712</b> Computer Programming 3 (4.5 units)	<b>COMP3721</b> Enterprise Information Security (4.5 units)	<b>COMP3722</b> Theory and Practice of Computation (4.5 units)	Serious Games Minor Year 3 option: (please seek course advice early in your course if you want to undertake a S2 option topic)	
	NS1	~ <b>ENGR3750</b> Workplace Preparation (0 units) ( <i>only if COMP3792 is being undertaken</i> )				
	S2	<b>COMP3742</b> Intelligent Systems (4.5 units)	<b>ENGR3704</b> (NS2) Project Management for Engineering and Science (4.5 units)	<b>COMP3792</b> Information Technology Practicum (9 units) and ~ <b>ENGR3750</b> Workplace Preparation (0 units) (NS1) <u>OR</u> <b>COMP3782</b> Information Technology Project (4.5 units) and <b>Table C Topic</b> (4.5 units)		
Year 4		<b>COMP7700A</b> Honours thesis (4.5units/22.5units)	<b>COMP7700B</b> Honours thesis (4.5units/22.5units)	<b>STEM7001</b> Honours Research Methods (4.5 units)	Year 4 Option topic	
		<b>COMP7700C</b> Honours thesis (4.5units/22.5units)	<b>COMP7700D</b> Honours thesis (4.5units/22.5units)	<b>COMP7700E</b> Honours thesis (4.5units/22.5units)		