

2020 Study Plan Template

Bachelor of Computer Science (Artificial Intelligence)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 108 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/bcscai>

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 (http://www.flinders.edu.au/courses/rules/undergrad/se_elec/table-c.cfm)

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

MINOR Multimodal Semester 1, 2020 start:

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

MINOR Research Methods Semester 1, 2020 start:

Year 1	S1	COMP1002 Fundamentals of Computational Intelligence (4.5 units)	COMP1102 Computer Programming 1 (4.5 units)	STAT1121 Data Science (4.5 units)	MATH1121 Mathematics 1A (4.5 units)	
	S2	COMP2712 Heuristic Optimisation (4.5 units)	COMP1711 Database Modelling and Knowledge Engineering (4.5 units)	COMP2711 Computer Programming 2 (4.5 units) S1 or S2	Research Methods Minor MATH1122 Mathematics 1B	
Year 2	S1	ENGR2881 Computer Networks (4.5 units)	COMP2781 Computer Mathematics (4.5 units)	Research Methods Minor: MATH2702 or MATH2711	ENGR1401 Professional Skills (4.5 units) S1 or S2	Research Methods minor: Year 2 topic options
	S2	COMP2772 Web-Based Systems Development (4.5 units)	ENGR1762 Networks and Cybersecurity (4.5 units)	COMP2812 Operating Systems (4.5 units)		
Year 3	S1	COMP3712 Computer Programming 3 (4.5 units)	COMP3721 Enterprise Information Security (4.5 units)	COMP3722 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	~ ENGR3750 Workplace Preparation (0 units) (<i>only if COMP3792 is being undertaken</i>)				
	S2	COMP3742 Intelligent Systems (4.5 units)	ENGR3704 (NS2) Project Management for Engineering and Science (4.5 units)	COMP3792 Information Technology Practicum (9 units) and ~ ENGR3750 Workplace Preparation (0 units) (NS1) <u>OR</u> COMP3782 Information Technology Project (4.5 units) and Table C Topic (4.5 units)		

MINOR Robotic Intelligence Semester 1, 2020 start:

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

MINOR SensoriMotor Intelligence Semester 1, 2020 start:

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

MINOR Serious Games Semester 1, 2020 start:

Year 1	S1	COMP1002 Fundamentals of Computational Intelligence (4.5 units)	MATH1121 Mathematics 1A (4.5 units)	STAT1121 Data Science (4.5 units)	Serious Games Minor: COMP1701 Simulation and Serious Game Design	
	S2	COMP1102 Computer Programming 1 (4.5 units)	COMP1711 Database Modelling and Knowledge Engineering (4.5 units)	ENGR1762 Networks and Cybersecurity (4.5 units)		ENGR1401 Professional Skills (4.5 units)
Year 2	S1	ENGR2881 Computer Networks (4.5 units)	COMP2781 Computer Mathematics (4.5 units)	COMP2711 Computer Programming 2 (4.5 units)	Serious Games Minor: SPTH1506 Linguistics and Phonetics	
	S2	COMP2772 Web-Based Systems Development (4.5 units)	COMP2712 Heuristic Optimisation (4.5 units)	COMP2812 Operating Systems (4.5 units)		Serious Games Minor COMP3752 or COMP3802
Year 3	S1	COMP3712 Computer Programming 3 (4.5 units)	COMP3721 Enterprise Information Security (4.5 units)	COMP3722 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	~ ENGR3750 Workplace Preparation (0 units) (<i>only if COMP3792 is being undertaken</i>)				
	S2	COMP3742 Intelligent Systems (4.5 units)	ENGR3704 (NS2) Project Management for Engineering and Science (4.5 units)	COMP3792 Information Technology Practicum (9 units) and ~ ENGR3750 Workplace Preparation (0 units) (NS1) <u>OR</u> COMP3782 Information Technology Project (4.5 units) and Table C Topic (4.5 units)		

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 (http://www.flinders.edu.au/courses/rules/undergrad/se_elec/table-c.cfm)