

Bachelor of Computer Science – Artificial Intelligence

BA-CS

Semester 1 | 2023

Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your course.

Year One

Semester 1 Feb/Mar 2023		
Unit Code	Unit Name	Pre-requisites
COS10009	Introduction to Programming	Nil
COS10026	Computing Technology Inquiry Project	Nil
TNE10006	Networks and Switching	Nil
COS10003	Computer and Logic Essentials*	Nil
MPU3193	Philosophy and Current Issues (Malaysian and International Students)	Nil
Winter Term June 2023		
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil
Semester 2 Aug/Sept 2023		
COS20007	Object-oriented Programming	COS10009
COS10025	Technology in an Indigenous Context Project	Nil
COS30015	IT Security*	COS10009 & COS10026 & TNE10006
COS10022	Introduction to Data Science*	Nil
MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
MPU3143	Malay Language Communication 2 (International Students Only)	Nil

How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colour-coded to assist you with mapping out your studies.

Course Information

This course has 24 units (300 credit points) consisting of

8 Core Units
100 credit points
A set of compulsory units you MUST complete as part of your Course.

8 Artificial Intelligence Major Units
100 credit points
A set of compulsory units you MUST complete as part of your Course.

8 Elective Units
100 credit points
A combination of elective units / second-major / Minor

Year Two

Semester 1 Feb/Mar 2024		
Unit Code	Unit Name	Pre-requisites
COS30018	Intelligent Systems	COS20007
COS20019	Cloud Computing Architecture	50cp
COS20031	Computing Technology Design Project	COS10009 / COS10026
COS30019	Introduction to Artificial Intelligence	COS20007
Semester 2 Aug/Sept 2024		
COS10004	Computer Systems	Co-req: COS10009
COS30049	Computing Technology Innovation Project	Nil
SWE30009	Software Testing and Reliability	COS20007
	Elective 1	

All commencing students of Master, Degree, Diploma and Foundation courses will be automatically registered for the **Academic Integrity Training Module** in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

Year Three

Semester 1 Feb/Mar 2025		
Unit Code	Unit Name	Pre-requisites
COS40005	Computing Technology Project A	175cp
SWE30003	Software Architecture and Design	COS20007 & 150cp
COS40007	Artificial Intelligence for Engineering	COS10009 & 100CP
	Elective 2	
Semester 2 Aug/Sept 2025		
COS40006	Computing Technology Project B	COS40005
COS30082	Applied Machine Learning	COS30018 / COS30019
	Elective 3	
	Elective 4	

Ministry of Education requires that all NEW Cohorts pursuing Degree course (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.

- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must attempt all coursework and final exam as a prerequisite for the award of their degree

Recommended Elective Units			
Unit Code	Unit Name	Pre-requisites	Offered in
COS30045	Data Visualisation	COS10009	Aug/Sept only
COS20083	Advanced Data Analytics	COS10022 & COS10009	Feb/Mar only
COS30008	Data Structure and Patterns	COS20007	Aug/Sept only
COS30043	Interface Design and Development	COS20007 & COS10026	Feb/Mar only
COS30020	Advanced Web Development	COS10009 & COS10026	Aug/Sept only
COS20015	Fundamental of Data Management	COS10009	Feb/Mar only
Minor Big Data Analytics			
COS10022	Introduction to Data Science	NIL	Feb/Mar & Aug/Sept
COS10082	Applied Analytics in Business	NIL	Aug/Sept only
COS20083	Advanced Data Analytics	COS10022 & COS10009	Feb/Mar only
COS20028	Big Data Architecture and Application	COS10022 & COS20007	Aug/Sept only

Notes

* Pre-scribed Elective