# COURSE PLANNER

# Bachelor of Computer Science – Artificial Intelligence
## BA-CS

Intake: Feb/Mar 2024

**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.

**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.

## Year One

| Semester 1 | Feb/Mar 2024 | |
|---|---|---|
| Unit Code | Unit Name | Pre-requisites |
| COS10009 | Introduction to Programming | Nil |
| COS10026 | Computing Technology Inquiry Project | Nil |
| COS10025 | Technology in an Indigenous Context Project | Nil |
| COS10003 | Computer and Logic Essentials* | Nil |
| MPU3273 | Integrity and Anti-Corruption (Malaysian and International Students) | Nil |
| **Winter Term \| June 2024** | | |
| MPU3212 | Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit) | Nil |
| **Semester 2 \| Aug/Sept 2024** | | |
| COS20007 | Object-oriented Programming | COS10009 |
| TNE10006 | Networks & Switching | Nil |
| COS10022 | Introduction to Data Science* | Nil |
| | Elective 1 | |
| MPU3193 | Philosophy and Current Issues (Malaysian and International Students) | Nil |

### 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 2025 | |
|---|---|---|
| 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 |
| MPU3183 | Penghayatan Etika dan Peradaban (Malaysian Students Only) | Nil |
| MPU3143 | Malay Language Communication 2 (International Students Only) | Nil |
| **Semester 2 \| Aug/Sept 2025** | | |
| COS10004 | Computer Systems | Co-req: COS10009 |
| COS30049 | Computing Technology Innovation Project | Nil |
| SWE30009 | Software Testing and Reliability* | COS20007 |
| COS30015 | IT Security* | COS10009 & COS10026 & TNE10006 |

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 2026 | |
|---|---|---|
| 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 2026** | | |
| 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 |
| INF10024 | Business Digitalisation | NIL | Feb/Mar & Aug/Sept 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