Programme Specification

Artificial Intelligence [Frenchay]

Version: 2026-27, v2.0, Validated

Contents

Section 1: Key Programme Details

Part A: Programme Information

Programme title: Artificial Intelligence [Frenchay]

Highest award: MSc Artificial Intelligence

Interim award: PGCert Artificial Intelligence

Interim award: PGDip Artificial Intelligence

Awarding institution: UWE Bristol

Teaching institutions: UWE Bristol

Study abroad: No

Year abroad: No

Sandwich year: No

Credit recognition: No

School responsible for the programme: CATE School of Computing and Creative Technologies, College of Arts, Technology and Environment

Professional, statutory or regulatory bodies: Not applicable

Modes of delivery: Full-time

Entry requirements: For current entry requirements, see the UWE public website.

For implementation from: 01 September 2026

Programme code: I40000

Section 2: Programme Overview, Aims and Learning Outcomes

Part A: Programme Overview, Aims and Learning Outcomes

Overview: Artificial Intelligence (AI) is the study of how we can develop and apply computer algorithms to automatically solve problems - either on their own, or working together as part of a human-machine team. As a broad area it covers ideas from philosophy and psychology, through computer science to 'hands-on' skills in data handling, statistics and programming.

UWE's programme is very much focussed on giving students the knowledge and skills to develop useful AI-based solutions to real-world problems.

Through a series of core AI modules, students will gain familiarity with the concepts, principal approaches and algorithms of modern AI. Students will have the opportunity to get hands-on experience of using different software tools and algorithms. These experiences will then help students gain skills in critically evaluating the strengths and weaknesses of proposed solutions to problems.

Other modules related to data management and statistical foundations will provide opportunities to practise and understand how AI approaches can be used to create real-world solutions. This will help bring data and AI approaches together to create solutions for various domains and let students test the solutions for gauging efficiency and performance of the solutions through statistical evaluations.

In keeping with our focus on the AI-practitioner, interwoven throughout the course are the vital skills of analysing and understanding the ethical, technical and operational context where AI might be deployed, and the kinds of domain-specific issues that need to be taken into account during the design process.

To help students gain professional skills such as team work and project management, they will work on a major group project. Here students will bring together all the skills and understanding they have learned throughout the MSc to design, implement and deliver an AI-based solution to a more complex problem with all the characteristics of the real-world. Students might expect to have to deal with uncertainty, inconsistent human interactions, and handling complex legal and ethical issues. At the end of the project, students will practise key professional skills of

communicating with different audiences as they present their findings to different stakeholders.

Features of the programme: Developing the ability to work within a professional environment and to successfully work in a group to identify and apply a range of appropriate Artificial Intelligence techniques.

Create effective solutions to problems that display a level of complexity characteristic of real-world problems.

Educational Aims: To enable graduates to progress to senior and leading Artificial Intelligence (AI) and related roles, with the scope and ability to develop organisational capabilities, strategies and operations related to AI/Machine Learning.

To develop resourceful, creative and independent thinkers able to identify, adapt and respond to changing requirements, capabilities and opportunities in the space of AI, Machine Learning (ML) and 'intelligent systems'.

To foster confidence in working with algorithms and data (including language and images) and managing associated concerns across multiple dimensions of data literacy.

Through AI/ML-based interventions, to enable graduates to impact positively on organisational efficiency and productivity.

To enable graduates to contribute to meeting societal needs for tackling complex ethical issues such as privacy, fairness, accountability and trust, surrounding the creation and use of AI-based systems.

Programme Learning Outcomes:
On successful completion of this programme graduates will achieve the following learning outcomes.

Programme Learning Outcomes

PO1.   Construct questions and hypotheses relating to organisational objectives and to identify experiments or gather data bearing on these.

PO2.   Apply the basic paradigms and methods of contemporary AI to to develop descriptive, predictive and prescriptive models and analyses adhering to good statistical practice.

PO3.   Critically evaluate platforms, tools, and frameworks to develop and test AI solutions for organisational challenges.

PO4.   Design, prototype and develop AI-based solutions using good coding practices and a range of contemporary toolkits together with data transformation and integration of diverse sources.

PO5.   Continually evaluate and improve models and systems to ensure they meet requirements and objectives.

PO6.   Take account of legal requirements, and ethical and societal issues through highly informed and responsible practice.

PO7.   Foster collaboration, leadership and results-driven mindset in teamwork and effectively communicate to diverse stakeholders.

Assessment strategy: Students will engage with a variety of assessment types, including authentic, real-world tasks designed to support academic and professional development. The assessment strategy has been mapped across the programme to ensure comprehensive coverage of the learning outcomes, while enabling students to build their skills progressively with regular, constructive feedback - particularly in preparation for the group project.

In addition to assessing understanding of key AI concepts and statistical foundations, the assessments are designed to monitor individual and collaborative skill development through practical projects and the evaluation of both the process and final outputs.

Short, time-limited assessments may be used to reinforce foundational knowledge and support its application in practice-based scenarios.

The programme learning outcomes are assessed through:

Assignments and project work that require students to align investigations with organisational goals.

Practical coursework that focuses on real-world problem-solving.

Technical artefacts and reports that showcase good coding practices, data transformation, and integration of diverse data sources.

Iterative project work that encourages ongoing reflection, testing, and enhancement of AI systems to meet specified requirements.

Group projects, presentations, and written outputs aimed at varied audiences. These are designed to develop teamwork and stakeholder-focused communication.

Legal, ethical, and societal considerations are explicitly addressed through applied tasks and reflective components.

All assessments are grounded in real-world problems and datasets, requiring students to research, apply, and share appropriate techniques in ways that reflect professional practice.

Artefact-based research projects provide students with the opportunity to integrate their skills in AI, statistics, and system development in capstone assessments. These may draw on business challenges from their own organisations or from those proposed by industry partners, enabling them to demonstrate meaningful, applied expertise.

Student support: Student support is structured through the programme, where students have regular contact time with PL and the member of the team through staff communication means and office hours in addition to teaching delivery contact times.

Students are organised into groups and each group is allocated with a group supervisor from programme team for completing their dissertation project.

Espresso Programming and Espresso Maths are regular drop-in sessions where students can work on individual problems with staff members.

UWE's library services provide a range of online resources for helping students develop their study skills. Along with professional services they also provide a wide range of support to international students.

UWE has a dedicated team focussed on providing support for student well-being that can be easily accessed in a number of different ways.

Part B: Programme Structure

Year 1
The student must take 180 credits from the modules in Year 1.

Year 1 Compulsory Modules

Module Code	Module Title	Credit
UFCEQ9-30-M	Data Management and Visualisation for AI 2026-27	30
UFCEL1-15-M	AI for Search and Optimisation 2026-27	15
UFCEM1-60-M	AI Group Project Model 2026-27	60
UFCEN1-15-M	Knowledge-based and Hybrid Systems 2026-27	15
UFCEP1-30-M	Machine Learning Algorithms 2026-27	30
UFCEQ1-15-M	Machine Learning for Language and Vision 2026-27	15

| UFCEQE-15-M | Statistical Learning 2026-27 | 15 |

Part C: Higher Education Achievement Record (HEAR) Synopsis

Graduates will exhibit analytical skills in problem framing and project design, data manipulation and retrieval, statistics and coding for developing AI-based solutions for different types of problems such as optimisation, and building predictive models from data . They will be able to develop and evaluate models, use established tools and methods, and effectively communicate their results to stakeholders. They will be able to work in a multifunctional team and manage a full development lifecycle.

Part D: External Reference Points and Benchmarks

Part E: Regulations

Approved to University Regulations and Procedures