

## Course Specification

<b>Published Date:</b>	05-Sep-2023
<b>Produced By:</b>	Louise Wood
<b>Status:</b>	Validated

## Core Information

<b>Awarding Body / Institution:</b>	University of Wolverhampton		
<b>School / Institute:</b>	School of Mathematics and Computer Science		
<b>Course Code(s):</b>	CS033P01UV	Full-time	14 Months
	CS033P31UV	Part-time	28 Months
<b>UCAS Code:</b>			
<b>Course Title:</b>	MSc Artificial Intelligence		
<b>Hierarchy of Awards:</b>	Master of Science Artificial Intelligence Postgraduate Diploma Artificial Intelligence Postgraduate Certificate Artificial Intelligence University Statement of Credit Artificial Intelligence		
<b>Language of Study:</b>	English		
<b>Date of DAG approval:</b>	15/Feb/2021		
<b>Last Review:</b>			
<b>Course Specification valid from:</b>	2019/0		
<b>Course Specification valid to:</b>	2025/6		

## Academic Staff

<b>Course Leader:</b>	Dr Liam Naughton
<b>Head of Department:</b>	Dr Kevan Buckley

# Course Information

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<b>Location of Delivery:</b>	University of Wolverhampton
<b>Category of Partnership:</b>	Not delivered in partnership
<b>Teaching Institution:</b>	University of Wolverhampton
<b>Open / Closed Course:</b>	This course is open to all suitably qualified candidates.

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## Entry Requirements:

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Entry requirements are subject to regular review. The entry requirements applicable to a particular academic year will be published on the University website (and externally as appropriate e.g. UCAS)

This is a conversion MSc which means that it is aimed at graduates from a wide variety of disciplines who wish to enhance their skills to pursue careers as Artificial Intelligence professionals.

- A lower second class honours degree in any discipline.
- GCSE Grade 4 in Mathematics (formerly Grade C) or equivalent

Alternatively:

Evidence of industrial experience in a relevant area will be considered. An interview process will also be utilised to verify suitability for the course for candidates with non-standard academic backgrounds but with demonstrable industry experience.

## International Applicants

Your qualifications need to be deemed equivalent to the above entry requirements.

- English Language requirements are normally IELTS 6.0 with a minimum of 5.5 in each area (unless otherwise stated) or equivalent accepted qualification <https://www.wlv.ac.uk/international/international-academy/courses-at-the-international-academy/language-entry-requirements/>
- Please use the following link <https://www.wlv.ac.uk/international/international-academy/courses-at-the-international-academy/> to see the range of English Language Pre-Sessional courses and related Pre-MSc courses offered by the University of Wolverhampton International Academy.
- For further information relating to overseas qualification, please use the following link <https://www.wlv.ac.uk/international/our-locations/your-country/>

## Distinctive Features of the Course:

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This is a conversion MSc which means that it is aimed at graduates from a wide variety of disciplines who wish to enhance their skills to pursue careers as Artificial Intelligence professionals.

This course will give you an exciting chance to move your career into a rapidly expanding high tech area. You will experience the application of Artificial Intelligence in the real world. The emphasis of the course is not only on the theory, but also the practice and application of this technology in new and ever evolving exciting areas.

The course will introduce you to the fundamental areas of Artificial Intelligence giving you specialist knowledge and skills in the theory and application of this increasingly important technology. It will furnish you with the high-level knowledge and skills to recommend solutions and apply existing tools to real world challenges in areas such as business, health, autonomous vehicles, smart homes..

The course is delivered in block mode and consists of four taught blocks, one project based block and the opportunity to apply for a summer internship with industry. Students can join the course at the beginning of any of the four taught blocks. The distinctive nature of this course means that it appeals to students from a

broad spectrum of academic backgrounds who may benefit from some additional assistance with areas outside of their previous area of study such as mathematics or programming. Prior to joining the course students are given access to a free two week induction programme in mathematics and programming to equip them with the core skills needed to succeed. This induction programme will be available to students all year round and additional support with mathematics and programming will be provided as needed by the expert support team at the University.

The core areas explored in this course include concepts & technologies of artificial intelligence, intelligent agents, deep machine learning & data mining. The course also includes a substantial independent research project under the supervision of a member of staff.

Industry Internships are offered on a competitive basis, as determined by employers, but are not guaranteed. There may also be unpaid internships available

### Educational Aims of the Course:

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The educational aims of this course are

- To enhance critical understanding and skills with regards to processes, techniques and methodologies around artificial intelligence in a blended learning environment with hand-on application using contemporary software.
- To equip students from a broad variety of backgrounds with the key skills needed to apply Artificial Intelligence tools and techniques to complex real world situations.
- To equip students with the communication, management and organisational skills needed to lead artificial intelligence projects and to communicate findings to the wider organisation including to non-technical audiences.

### Intakes:

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Various (See Course Structure Below)

### Major Source of Funding:

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Office for Students (OFS)

### Tuition Fees:

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Tuition fees are reviewed on an annual basis. The fees applicable to a particular academic year will be published on the University website.

Year	Status	Mode	Amount
2021/2	H	31	£3275.00
2022/3	H	Full Time	£7995.00
2022/3	Overseas	Full Time	£14450.00
2022/3	H	31	£3998.00
2023/4	H	Full Time	£8395.00
2023/4	Overseas	Full Time	£15450.00
2023/4	H	31	£4198.00

PSRB:

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None

Course Structure:

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## January (Full-time)

Module	Title	Credits	Period	Type
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core
7CS043	Research Methods	15	IN YR	Core
7CS044	Project Management	15	IN YR	Core

## January (Part-time)

Module	Title	Credits	Period	Type
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS043	Research Methods	15	IN YR	Core

## January (Full-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core
7CS039	Statistics for Data Science	15	IN YR	Core

## January (Part-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core

## January (Full-time)

Module	Title	Credits	Period	Type
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

## January (Part-time)

Module	Title	Credits	Period	Type
7CS044	Project Management	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core

## January (Part-time)

Module	Title	Credits	Period	Type
7CS039	Statistics for Data Science	15	IN YR	Core
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

## March (Full-time)

Module	Title	Credits	Period	Type
7CS043	Research Methods	15	IN YR	Core
7CS044	Project Management	15	IN YR	Core

## March (Part-time)

Module	Title	Credits	Period	Type
7CS043	Research Methods	15	IN YR	Core

## March (Full-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core
7CS039	Statistics for Data Science	15	IN YR	Core
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core

## March (Part-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core

## March (Full-time)

Module	Title	Credits	Period	Type
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

## March (Part-time)

Module	Title	Credits	Period	Type
7CS044	Project Management	15	IN YR	Core

## March (Part-time)

Module	Title	Credits	Period	Type
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS039	Statistics for Data Science	15	IN YR	Core
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

## September (Full-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core
7CS039	Statistics for Data Science	15	IN YR	Core
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core
7CS043	Research Methods	15	IN YR	Core
7CS044	Project Management	15	IN YR	Core

## September (Part-time)

Module	Title	Credits	Period	Type
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS039	Statistics for Data Science	15	IN YR	Core
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS043	Research Methods	15	IN YR	Core

## September (Full-time)

Module	Title	Credits	Period	Type
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

## September (Part-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core
7CS044	Project Management	15	IN YR	Core

## November (Full-time)

Module	Title	Credits	Period	Type
7CS028	Deep Machine Learning	15	IN YR	Core
7CS039	Statistics for Data Science	15	IN YR	Core
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS036	Intelligent Agents	15	IN YR	Core
7CS043	Research Methods	15	IN YR	Core
7CS044	Project Management	15	IN YR	Core

## November (Part-time)

Module	Title	Credits	Period	Type
7CS039	Statistics for Data Science	15	IN YR	Core
7CS033	Data Mining & Informatics	15	IN YR	Core
7CS043	Research Methods	15	IN YR	Core

## November (Full-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core

## November (Part-time)

Module	Title	Credits	Period	Type
7CS034	Data Science	15	IN YR	Core

## November (Full-time)

Module	Title	Credits	Period	Type
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

## November (Part-time)

Module	Title	Credits	Period	Type
7CS036	Intelligent Agents	15	IN YR	Core
7CS028	Deep Machine Learning	15	IN YR	Core
7CS044	Project Management	15	IN YR	Core

## November (Part-time)

Module	Title	Credits	Period	Type
7CS030	Concepts & Technologies of Artificial Intelligence	15	IN YR	Core
7CS042	MSc Project Artificial Intelligence	60	IN YR	Core

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, to create the best learning experience.

## Learning, Teaching and Assessment

Academic Regulations Exemption:

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AFRSC/19/26.3.7 MSc Artificial Intelligence/MSc Data Science.

Section 1.2.3 - Exemption for delivery outside the standard University Academic Calendar in order to facilitate teaching over four consecutive seven week blocks of study during each academic year (commencing in September, November, February and April) which enables students to complete Summer internships (over a three month period from June to August).



Section 1.3.1 - Exemption from the standard University Academic Framework allowing for the use of 15 credit taught modules at Level 7.

Effective date: September 2020.

APPROVED (by Chair's Action on 30/7/2020).

Reference Points:

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[UK Quality Code for Higher Education](#)

[Qualifications and Credit Frameworks](#)

[Subject Benchmark Statements](#)

[University Policies and Regulations](#)

Equality Act (2010)

Overview of Assessment:

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As part of the course approval process, the course learning outcomes were mapped to each of the modules forming the diet of the programme of study. This process confirmed that all course learning outcomes can be met through successful completion of the modules. This mapping applies to the final award as well as to all of the intermediate awards.

Learning Outcomes	Modules
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Teaching, Learning and Assessment:

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You will undertake a wide range of learning activities including:

- Supported learning using the University VLE (CANVAS) as a learning tool, for information and interactive communications
- Computer based learning
- Lectures
- Tutorials
- Workshops
- Case studies
- Directed study
- Individual or group exercises
- Research project investigations

Students will also have the opportunity to engage in formative assessment throughout the course.

Assessment Methods:

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At the University of Wolverhampton, a variety of modes of assessment will be used to support and test your learning and progress and to help you develop capabilities that are valued beyond your University studies and into your working life. Your course may include a variety of assessment activities:

Written examinations (including online examinations, open and closed book examinations and quizzes)

Coursework (for example, essays, reports, portfolios, project proposals and briefs, CVs, poster presentation)  
Practical (for example, oral and video presentations, laboratory work, performances, practical skills assessment)

In the final year of your undergraduate degree, and at the end of your postgraduate degree, you are likely to be expected to write an extended piece of work or research, such as a dissertation or a practice-based piece of research.

## Student Support:

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### General University Support:

Libraries are the key source of academic information for students. Libraries provide physical library resources (books, journal, DVDs, etc.) and offer a range of study areas to allow students to study in the environment that suit them best: Social areas, quiet and silent areas. Libraries also provide access to wide range of online information sources, including eBooks, eJournals and subject databases.

Libraries also provide students with academic skills support via the [Skills for Learning programme](#). Students on campus can attend workshops or ask for one-to-one help on a range of skills such as academic writing and referencing. Students can access a range of online skills material at: [www.wlv.ac.uk/lib/skills](http://www.wlv.ac.uk/lib/skills)

The [University Student Support website](#) offers advice on a variety of matters (careers, counselling, Student Union advice, etc.) Students can also access these services by booking appointment with the SU, careers, counselling services, etc.

### Course Specific Support:

Students will have access to both departmental and university-wide support during their studies. Students will have access to a personal tutor and may book appointments at any point during the academic year. Newly enrolled students on the course will receive a comprehensive induction in the week prior to commencement. In addition to this, the course co-ordinator or his/her representative will meet you to explain the course structure and other issues relating to your experience at the university. These introductions will give you outlines of your course and units, a description of the ways you will be encouraged to develop your knowledge and skills, and signpost resources and materials to assist the process of your learning and success. You will be allocated a personal tutor when you join the course. This academic will be responsible of monitoring your academic progress throughout the course and will help you with any academic or personal issues that might come up. The personal tutor is your consistent point of contact for support and guidance but will on occasion refer you to other university staff for specific issues.

Additionally, newly enrolled students will be given a free two week induction course in elements of mathematics and programming to help them succeed with their studies. Students will be able to re-engage with these materials whenever necessary as well as availing of the regular drop-in support services provided.

## Employability in the Curriculum:

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Employability of graduates is a core focus throughout this course where emphasis is consistently placed on real world applications of Artificial Intelligence.

In particular employability skills is at the heart of the Project management module, the Project module and the potential industry internship.

The diverse skills acquired in this course will position graduates perfectly to take advantage of the skills shortages in artificial intelligence related carers across a broad spectrum.