North Wales Management School

WREXHAM UNIVERSITY

MSc Computer Science with Big Data Analytics

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Make your choice to study with a well-connected and career-focused university...

NORTH WALES MANAGEMENT SCHOOL IS PART OF WREXHAM UNIVERSITY, A VIBRANT, FRIENDLY INSTITUTION WHERE EACH STUDENT'S LEARNING, POTENTIAL AND FUTURE IS GIVEN PERSONAL ATTENTION.

Industry-led courses are at the heart of our offering. We pride ourselves on our leading scores for employability and links with leading local and regional employers such as Toyota, Kellogg's, Brother Industries and the BBC. Their knowledge and expertise feeds into our courses, ensuring that our students are provided with only the most relevant skills for their future career.

Find out more about Wrexham University

Why Wrexham?

100% online MBA within 24 months

Study anytime, anywhere, on any device

Earn while you learn

£6,000 total fees, option to pay per module

Top 10 in the UK for 'Teaching Quality'*

*The Times and The Sunday Times Good University Guide, 2024

Full academic support

From our home in Wales to your home anywhere in the world...

WREXHAM UNIVERSITY HAS BEEN TEACHING STUDENTS ON CAMPUS IN WALES SINCE 1827 AND GAINED OFFICIAL UNIVERSITY STATUS IN 2008 WITH THE VALUES OF OWAIN GLYNDWR: TO BE BRAVE, ENTREPRISING AND OPEN TO ALL.

This commitment to inclusivity is reflected through our suite of completely online programmes, all designed to offer the flexiblity working professionals looking to develop new key in-demand skills need to progress further in their career or take a new direction altogether.

Our programmes make it possible to fit study around your life – be it important family and work commitments, or more personal interests such as sports, recreation and social activities. For even more flexibility, there are six start dates a year, an option to pay per module and government loans available for those that are eligible.

North Wales Management School and Wrexham University as a whole prides itself for its employment outcomes as well as its expertise in part-time and flexible learning so you can progress your career, whenever you can and wherever you may be.

What our students say...

Click on the image to hear what our students think about online study at NWMS.

MSc Computer Science with Big Data Analytics

TAKE YOUR CAREER TO THE NEXT LEVEL WITH A CAREER-CENTRIC DATA ANALYTICS MASTER'S PURPOSE-BUILT TO MEET THE NEEDS OF TODAY'S WORLD OF WORK.

Overview

This programme is designed to provide a new way for busy working professionals to gain in-demand skills and a qualification in this sought-after field. It is designed both for ambitious individuals who are not from computer science or data analytics backgrounds, as well as those currently working in the sector and looking to accelerate or change their career with a high-quality qualification.

Designed to build the key professional competencies and skills of a computer scientist, it also provides a deep knowledge of the techniques and unique issues surrounding the emerging use of data for analytics, decision making and monitoring within real-world contexts.

Study mode:
Part-time online only

Duration:
24 months

More details:

Click here to find out more and apply

What will I learn?

This careers-focused programme incorporates considerations essential to practice in data analysis including problem solving, legal and professional skills. In addition, students of this programme learn how to:

- Work with a range of online, software and database tools to implement complete and functional systems or platforms.
- Make effective use of a range of theories and techniques applicable to computer science scenarios.
- Professionally and efficiently operate a range of IT software, specialist computing applications, and configure a range of hardware devices.
- Effectively and proficiently work with stakeholders in designing IT and computer systems in response to their needs and demands.
- Make critical decisions regarding technology adoption and success, based upon technological, societal, ethical, and market information.
- Carry out a large-scale, independent project and provide detailed and reflective analysis of its efficacy and value.

What careers can this degree prepare me for?

An MSc Computer Science in Big Data Analytics can boost your career with in-demand skills sought by employers looking to employ experts in roles including, but not limited to:

- Computer Systems Analyst
- Data Analyst
- Data Architect
- Data Infrastructure Analyst
- Data Scientist
- Big Data Engineer
- Business Intelligence (BI) Analyst
- Statistician

What topics will I cover?

Critical Research for Postgraduate Study

Data Structures and Algorithms

Big Data: Challenges and Opportunities

Data Analysis and Visualisation

Database Systems

Machine Learning

Systems Engineering

Virtual and Cloud Computing

Security and Risk Management in a Digital Environment

Applied Research Methods

Dissertation

About online study with NWMS...

ONLINE STUDY CAN HELP BREAK DOWN MANY OF THE BARRIERS PEOPLE EXPERIENCE WHEN SEEKING THE NEW SKILLS, KNOWLEDGE AND QUALIFICATIONS THEY NEED TO PROGRESS THEIR CAREERS, OPENING DOORS TO A GREATER RANGE OF STUDY OPTIONS.

How does online study work?

- Online students complete their studies in a digital classroom, or virtual learning environment. These spaces maximise flexibility, making it possible to access your course content and materials whenever and wherever it suits you around important life commitments such as work, family and friends.

Do I need to attend campus at all?

- No. All of your programme requirements are completed online.

What learning platform will I use?

- NWMS uses Canvas. It's a digital learning environment that promotes student-centred learning through a modern user-friendly platform.

What are the technology requirements?

- You will need regular, ongoing access to a working laptop or desktop PC, as well as a stable internet or WiFi connection. You will also need to know how to use Microsoft Office applications including Word and Powerpoint, and be able to save files to Wrexham's cloud server.

How do the online and on-campus programmes vary?

- These programmes are designed for online study. Video lectures outline concepts, theories and principles, while seminars and activity-based sessions use real-life examples to bridge theories with practice. Quizzes and discussion board participation also help to encourage your collaboration and learning.

What support will I receive?

- You will study independently with periodic academic support including guidance, feedback and suggestions, throughout your studies.

How will I interact with other students?

- Canvas provides all the tools you need to chat, exchange ideas and interact with your fellow learners.

  It's a great place to build a friendly community of learners with whom to share your learning journey.

How many hours per week will I study?

- Our online courses are designed for weekly module participation and you will need to stay engaged to keep up with tutor and student discussions. Each module is designed to need roughly 19 hours' study per week in each week for eight weeks. The dissertation and research projects however take place over 16 weeks.

Are there any breaks? If so, when are they?

- There are two teaching breaks built into each year of the programme – two weeks in the summer and two in the winter.

As an online student with Wrexham you can...

Learn in a purpose-built digital learning environment

Build a study timetable to suit your life around your work, family, friends and interests

Engage in a variety of learning methods (videos, lectures, discussion boards etc.)

Avoid lengthy travel to and from campus to complete your studies

Grow your professional network with online students from across the UK

Frequently Asked Questions

ALL YOUR KEY QUESTIONS ON FEES AND FUNDING,
STUDENT SUPPORT AND CAREERS ANSWERED.

Fees and funding

When are my fees due?

- You will need to pay for your first module before your programme's start date. The payment deadline will be provided on your enrolment invitation.

How are my fees paid?

- You can pay by credit or debit card via **eVision** as part of the enrolment process once you receive you enrolment invitation.

Can I pay in instalments?

- You can pay for your studies in full at the beginning of your programme, or by module as you go, breaking up the full programme fee over the course of your studies. You cannot however, pay your individual module fees in instalments.

Is Student Finance available?

- Students based in the UK may be eligible for a postgraduate loan. You can visit **gov.uk/masters-loan** for more information and to apply.

Am I eligible for an Alumni discount?

- Yes. If you have previously completed an undergraduate degree at 2:2 or above with Wrexham University you will be eligible for a 10% discount.

Student Support

What contact will I have with my tutors?

- You will be able to interact with your online tutors, and other students on Canvas – our online learning platform.

Is attendance monitored?

- No. These programmes are delivered as asynchronous learning. This means there are no live parts of the programme, so you can choose to study in your free time and at a time which suits you. The programme's student success coordinators and the programme team will, however, be able to monitor your engagement with the programme.

No engagement for a lengthy period will be considered a potential challenge to your success and relevant support may be required.

Is technology support available?

- Technology support is available to our students through the enrolment teams (new students) and Student Support Coordinators (existing students) who can help with most issues. Students can also be referred to IT for further assistance if required.

What support can students with additional support needs receive?

- You will receive extra support and can set up video sessions with the tutors to support your learning. You can view further information at **wrexham.ac.uk/student-support/inclusion/**

Careers and progression

Are these programmes accredited?

- No. Our degree programmes are not third-party accredited.

What are the career pathways for this programme?

- This programme presents a variety of career opportunities for computer science professionals. For more information on the possible options see page 5.

Will this degree allow me to go onto PhD Study?

- While a Master's degree will help to open doors with employment as well as study, you'll need to check the specific entry requirements of the programme and institution you are interested in to find out if our programmes are acceptable for entry.

Click here for more programme FAQs

North Wales
Management School

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