

MSc Information Systems



Is this course for you?

This course is ideal if you want to combine current academic knowledge and skills in information systems (IS) with leading industry practice. The additional embedding of introduction to SAP ERP (enterprise resource planning) system within the curriculum means that you'll be suited to a wide range of careers within the public and private sectors when you graduate.

About this course

The MSc in Information Systems aims to provide a bridge between technology and management, by developing the knowledge and skills needed to be an effective practitioner in an Information Systems-rich environment. The award is appropriate for those that wish to develop their knowledge and skills in this discipline with a view to moving into Information Systems management. The study of Information Systems is pivotal in understanding how computing technologies can be successfully used to enhance the operational effectiveness and strategic competitiveness of organisations.

The award is concerned with those areas of computing fundamental to the use and implementation of IT as a tool to support the organisational objectives. These include, information systems analysis and design, IT for strategic management, IT infrastructure, cloud-based service infrastructure, database systems technology, and e/m-commerce.

The award also aims to instill sound academic & professional skills required for lifelong learning & development - for example, skills in research methods, critical thinking & analysis, academic and professional report writing, and communication skills.

There is an opportunity to apply for an Industrial Placement (Internship), with assistance from our placements team.

Key features

- Research-informed teaching that has direct value to industry, commerce and to you as an IS industry professional.

- You will develop a critical perspective of Information Systems thinking and be able to apply this to a range of real-world scenarios.
- We are a full member of SAP University Alliance / SAP University Competence Centers (UCC). Therefore, we teach various aspects of SAP ERP in our course; SAP ERP is one of the world leading enterprise systems. You will get an opportunity to use and research SAP ERP during your studies.
- MSc teaching expertise based on scholarship and research undertaken in our Research Centres.
- The chance to focus on a subject area of interest and the opportunity to develop this even further by undertaking an associated MSc dissertation.
- Access to a wide range of facilities, including our newly built state-of-the-art laboratories, computing equipment and software.

Entry requirements

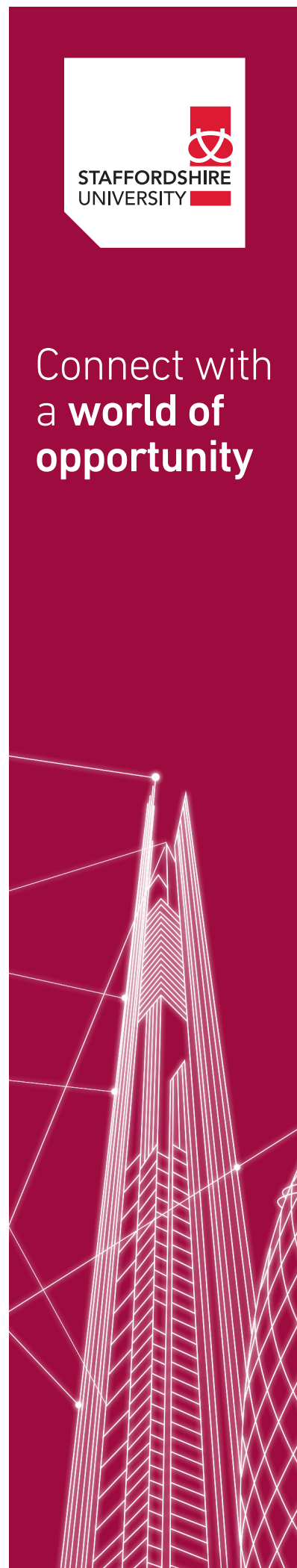
Normal requirements are at least a UK second class honours degree or equivalent in a related computing discipline. If you do not meet the above but have significant appropriate work experience, your application will be considered, provided that you satisfy the University that you are capable of responding to the challenge of postgraduate work.

If your first language is not English, you will need to demonstrate that you are fluent enough to cope with the course. A minimum score of IELTS 6 or TOEFL 550 (213 computer-based) is normally required.

Key facts

| Mode of study | Duration | Course begin |
|---------------|--|--------------------|
| Full-time | 18 months of study plus the optional placement | September, January |

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Modules

Managing Emerging Technologies

The module will examine the management issues presented by the emerging data technologies which support Big Data, business intelligence, enterprise systems, Internet of Things (IoT) and cloud technologies.

Information Systems Management and Strategy

This module examines the development and effects of strategic planning mechanisms that meet the needs of organisations today. Using case studies, you will explore the theory and practice of both the business and technical domains.

Information Systems Analysis Modelling and Design

The module introduces students to a number of database technologies and the specification, design, development and implementation of information systems. This module also introduces students to concepts of ERP and SAP ERP.

Research Methods

The Research Methods module provides you with basic research training and a good grounding in research methods and techniques. It will allow you to begin research and carry out basic research projects which can be developed in the future.

Project and Change Management

The module takes a structured approach to project management (PM) that refers to several PM methods that may be found in industry while following a well-tried set of steps that make a complex subject easier to learn.

Operational and Analytical Databases

In this module, you will be researching into how data and the quality of data within database systems can be leveraged by organisations. You will research how data mining and data warehousing are used within leading edge decision support, mobile, web and roaming databases.

IT Infrastructure

This module comprises of development and operation of computer networks, communication architecture and protocol layering, and fundamental aspects of distributed systems and applications of networking.

Dissertation

The dissertation module is the culmination of your masters study. In this module you will research in depth a problem area that you have identified. The problem area will be relevant to your award and will be at the forefront of technology.

Student requires to select one optional module out of two modules below, for semester 1:

Engineering Internet Applications

This module provides an in-depth, hands-on experience of designing, implementing and testing Internet applications. A practical assignment to design, implement and test an Internet application. Assessed by report and demonstration.

Media Editing and Multimedia Applications

In taking this module you will look at leading edge media development technology and ideas in the area of advanced multimedia.

"Students on this award learn the knowledge and skills to support and lead organisations for which the use of technology based systems is critical to their success. The academic content is taught by people with real-world experience of their subjects. The practical application of the course content in an industrial placement with one of many commercial organisations enables students to appreciate, first hand, the application of academic concepts."

Dave Thomas, Senior Lecturer in Applied Computing

Accreditation:

Accredited by BCS –
The Chartered Institute for IT for:
Chartered IT Professional –
Further Learning (CITP)
Chartered Engineer (CEng) -partial
Chartered Scientist (CSci) -partial