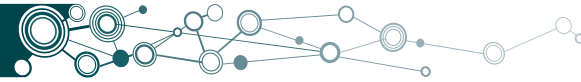




# Computing and Information Science Postgraduate Courses



Professional study leading to careers in computing, information science, information systems and technology, electronic publishing, human-centred systems, and health informatics.





City University London – founded in 1894 as the Northampton Institute and awarded full university status in 1966 – has a reputation for excellence in professional education.

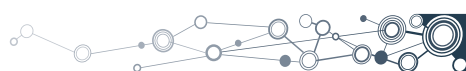
We pride ourselves on the close contacts we have built with leading professional institutions and with business and industry, and have established one of the best graduate employment records in the country.

City has special links with the City of London. The Chancellor is the Lord Mayor of London and our degree ceremonies are held at the historic Guildhall.

Our professional links are reflected in the teaching and research staff at City. Many academics here have professional qualifications and experience as well as high academic standing.

We are dedicated to providing high-quality education that meets the needs of our students and their employers, and to developing and enhancing research that has acknowledged standards of excellence.

With a highly diverse student population drawn from over 150 countries, City is a cosmopolitan university. We are committed to attracting, and supporting, high quality and talented students, irrespective of social or national background. The University celebrates and values its thriving international academic links.



## School of Informatics – Postgraduate courses

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As you read this, you are in the process of making a key decision: which university and course of study will best further your education and help you fulfil your potential.

You may be seeking an opportunity to develop new knowledge and skills for competitive advantage in your career, to satisfy a professional need, or to move into a discipline new to you.

Whatever your reasons for postgraduate study, we are confident that City University London's reputation as a high quality provider of postgraduate education will influence the value of the qualification you gain and, in consequence, your employment and professional development prospects.

Our brochure presents a portfolio of carefully-designed, professionally-orientated courses, many enhanced by accreditation from the leading professional bodies in their field, and the opportunity to undertake a six-month internship in the IT industry. Courses for specific career roles are clearly shown.

We hope you find this guide useful and we will be delighted to answer any further questions you have.

Whatever choice you make now, we hope that you enjoy your studies and wish you success and prosperity in your university education and career.

**Seb Hunt**

Associate Dean (Education)

# Eight Reasons to Study a Postgraduate Degree at City



## 01

### Excellent career prospects

City graduates are well regarded in industry, and many secure employment with prestigious companies after graduation or significantly enhance their position within their existing workplace. The close involvement of industry in the design of courses ensures an accelerated start at the beginning of your career, as well as providing you with the vital skills and knowledge required for developing your professional career.

In 2007, 88.6% of City's Informatics postgraduates were employed within six months of graduation (data from most recent DLHE postgraduate students' destinations report).

## 02

### Internships in industry

As an IT postgraduate student in the School of Informatics you have an unrivalled opportunity to gain six months of professional IT experience as part of your masters degree while you complete a client-based project. Internships are available to both UK/EU and International students. Internships are available on most of our courses.

## 03

### Professional recognition



The majority of our courses benefit from recognition by the leading professional body in their field, such as the British Computer Society (BCS), and the Chartered Institute of Library and Information Professionals (CILIP).



## 04

### International reputation

The School of Informatics provides internationally excellent education and research for the computing and information professions.

Our academic research in computing, artificial intelligence, information management and science, human-computer interaction, and subjects allied to medicine is respected internationally. City University London is also a European centre of excellence for software engineering research. Our research directly informs teaching, ensuring that the School's courses are leading-edge, and that you are taught by experts.

## 05

### Flexible and online learning

We understand that students have commitments and careers, so we offer the majority of our courses on both a part or full time basis.

All our courses are extensively supported by the University's innovative online learning environment, CitySpace, which complements face-to-face teaching and allows flexible learning.

## 06

### Libraries and resources

Several subject-specific libraries and specialist collections complement the catalogue held by the modern and well-equipped main University library at Northampton Square, and an extensive range of online resources is available, many of which are accessible from off-site.

## 07

### Purpose-built premises and labs

The School of Informatics is housed in purpose-built premises in the historic College Building at the main University site. Students benefit from specialist teaching rooms and laboratories, including a well established SAP lab and the new Human Computer Interaction Design lab supported by The Vodafone UK Foundation.

## 08

### Location

City University London is located close to the City of London, in a vibrant cultural area of central London which includes the Barbican Centre and Sadler's Wells theatre as well as numerous cafes and restaurants. Transport links to other parts of central London, including the West End, are excellent.



# Internships in Industry

04



As an IT postgraduate student in the School of Informatics, you will have an unrivalled opportunity to gain six months of professional IT experience as part of your masters degree and complete a client-based project on most courses\*. Internships are available to both UK/EU and International students.

Internships are optional and highlighted on participating courses on the following pages of this brochure.

Our internship scheme gives you the chance to see for yourself how the latest technologies you are learning about are being used in business, and to work on your own project. An internship enables you to develop your technical skills and business knowledge, to really understand the IT industry, and to learn about the different career paths open to you.

Internships delivered by City University London offer an exceptional opportunity to make you stand out in a competitive, professional job market.

\* The Internship Scheme is not available on the following courses:  
MSc Information, Communication and Society  
MSc Information Science  
MA/MSc Library Science  
MA/MSc Information Management in the Cultural Sector  
MSc Resilience, Assurance and Risk Management for Computer-Based Systems  
MInnov/MSc Innovation, Creativity and Leadership

## Long-standing employer links

We have been operating a sector-leading IT placements scheme for over 15 years, and we have developed an excellent reputation with a very wide range of employers, both large and small.

## Unrivalled support

We proactively seek out internship opportunities for you. Whilst in industry, you will receive regular visits from our Work-based Learning Advisors who provide full support in helping you achieve the most from your IT industry experience. You will receive further support from a project supervisor and your personal tutor.

## External professional body recognition

Professional Development Scheme gives you both career development planning and evidence of experience that you can use when applying for professional positions. This also accelerates your progression to Chartered IT Practitioner, the gold-standard for IT professionals, as time spent on internship counts as IT work experience.



## Frequently asked questions

These are the most common questions we are asked. Our Programmes Office will be very happy to answer any further questions you may have regarding the scheme.

### How does it work?

You attend taught lectures and tutorials and take examinations as usual during the first phase of your masters degree, also applying for internship positions with our support.

You enter the scheme when an internship is secured and you have progressed from the taught part of the masters degree. You then spend up to six months on internship, where you submit deliverables and produce a dissertation to complete your degree.

If you decide not to undertake an internship you will complete your masters degree in the usual manner and timescale.

### When do I need to decide?

No decision is required on application. The internship process starts when you enrol, but you have the option available of completing your masters in the usual manner by undertaking a project at City. In all cases, the decision is not final until you have secured an internship employer and accepted their offer.

### How do I find an internship?

City has extensive experience in enabling students to secure placement employment in the IT industry and we provide excellent support in helping you secure an internship with an employer.

### Will I get paid?

This is a matter to be agreed between you and your internship employer, so payments and amounts depend on your employer.

### What happens on an internship?

You will undertake a client-based project that will deepen your knowledge and provide evidence of your skillset to potential employers. You may find yourself working in a large IT department with a project team, or in a small organisation alongside users. City ensures that you are provided with a professional development unique to your internship.

### What must I deliver?

You complete a client-based project dissertation whilst on internship, demonstrating that you can apply what you have learnt in the masters degree to a high professional standard in the IT industry. You will also use our professional development scheme to plan and document your work.

### Is there a fee for internships?

Yes. Due to the additional support provided, an additional fee (£490 in 2009 academic entry year) is payable at the start of your internship, usually in the July of your year of study.

### Can overseas students do internships?

Yes. The Home Office allows overseas students studying in the UK to undertake internships without needing a work permit, and without jeopardising their student visa status, as part of their course. Normally student visas are granted for one year, so you will need to apply for a visa extension once you have secured an internship.

### Can I speak to someone about internships?

Yes. Our Programmes Office are very happy to advise about internships or any other queries relating to study at City University London. Alternatively, book online to attend an open evening and meet our internship organisers in person.

# FAQs



## Daniel Benninger

### is working on a research project with Bloomberg

*"The postgraduate internship programme is the perfect complementary opportunity for my master's. It gives me a chance to gain the most sought-after and rewarding practical application of what I'm learning; on the job experience."*

## More information

[www soi.city.ac.uk/pgcourses/internships.html](http://www soi.city.ac.uk/pgcourses/internships.html)

Email: [internships@soi.city.ac.uk](mailto:internships@soi.city.ac.uk)



City University London is one of an exclusive group of universities in the UK working with SAP to deliver solution architect training to students. MSc students are now eligible\* to register for the SAP 'TERP10' Certification Training course at a substantial discount.



\* Available for students who choose and complete the Business Engineering with ERP Solutions module as part of their MSc on the following degrees: Business Systems Analysis and Design, e-Business Systems, Software Engineering and Information Management and Information Systems and Technology.

## Your MSc

- taught modules include:  
Business Engineering with  
ERP Solutions

Your MSc includes a lab-based module on engineering business software applications and services, raising awareness of solutions from SAP and competitors, and teaching engineering methods using solutions including SAP ERP. Students will also have access to our current research collaborations with SAP on computer-based security and work-based learning systems.

## SAP 'TERP10' Certification

### Added benefit to your MSc Degree

SAP Certification Training 'TERP10' is the entry level SAP solution consultant certification course. It focuses on how the fundamental integrative business processes interact within SAP ERP, including: Procurement, Manufacturing, Planning, Project Management, Sales, Customer Service, Enterprise Asset Management, Financials, Human Capital Management, and Analytics.

You will:

- receive focused, specialised training in SAP ERP – which is used by over 45,000 small and medium enterprises as well as large corporations around the world
- learn about key business processes, understand integration points and key controls of SAP ERP
- get the opportunity to earn entry level solution consultant certification recognised globally by SAP, its customers and partners

## Internship

### Enhance your career with SAP expertise

Internships may be used to build on this with 6 months of professional IT experience at SAP providers and customers. Your internship in industry will ensure you get to apply the skills you have learned during your MSc and your SAP consultancy training. This is a unique opportunity to enhance your marketability with prospective employers.

## Your Career

The TERP10 certification course will help solution architects, project managers, project team members, and solution consultants to gain a broad overview of the core business processes, business interrelations and integration of the individual business applications within the SAP ERP solution.

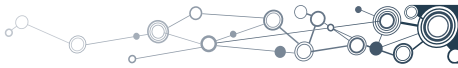
### About SAP

SAP is the world's leading provider of business software, offering applications and services that enable companies of all sizes and in more than 25 industries to become best-run businesses. With more than 75,000 customers in over 120 countries, SAP is listed on several exchanges, including the Frankfurt stock exchange and NYSE, under the symbol "SAP." For more information, visit [www.sap.com](http://www.sap.com)

### Martin Gollogly

Head of SAP University Alliances, SAP

"SAP is delighted to enhance its relationship with the School of Informatics at City University London by providing SAP Professional Training to MSc students. SAP being widely used in UK businesses and around the world, the demand for 'SAP aware' graduates is growing dramatically. We feel it is a strong added benefit to MSc students that the School of Informatics are now able to train their students in the use of SAP software and the changes in business processes enabled by SAP software."



Some typical career specialisms are shown below. However, we appreciate that everyone is unique, and we are ready to help you realise your ambitions. Your future career is important to us and our dedicated Professional Liaison Unit can help you explore your career options and review how you present yourself to prospective employers. We are here to help you plan your professional development, alongside your postgraduate studies.

MSc Business Systems Analysis and Design	<ul style="list-style-type: none"> <li>• Systems Analyst</li> <li>• Systems Integrator</li> </ul>	<ul style="list-style-type: none"> <li>• IT Consultant</li> </ul>
MSc e-Business Systems	<ul style="list-style-type: none"> <li>• Business Software Developer</li> </ul>	<ul style="list-style-type: none"> <li>• Systems Integrator</li> <li>• Software Engineer</li> </ul>
MSc Software Engineering	<ul style="list-style-type: none"> <li>• Software Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Programmer</li> </ul>
MSc Computer Games Technology	<ul style="list-style-type: none"> <li>• AI Technologist</li> <li>• Tools, Utility and Scripting Programmer</li> </ul>	<ul style="list-style-type: none"> <li>• Simulation and Game Engine Programmer</li> <li>• 3D Graphics Programmer</li> </ul>
MSc Human-Centred Systems	<ul style="list-style-type: none"> <li>• Usability Analyst</li> <li>• User-Centred Designer</li> </ul>	<ul style="list-style-type: none"> <li>• Interaction Designer</li> <li>• Web Developer</li> </ul>
MA/MSc Electronic Publishing	<ul style="list-style-type: none"> <li>• Web Manager</li> <li>• Web Producer</li> <li>• Internet Content Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Web Programmer</li> <li>• Web Developer</li> </ul>
MSc Information, Communication and Society	<ul style="list-style-type: none"> <li>• Chief Information Officer</li> <li>• Information Strategist</li> </ul>	<ul style="list-style-type: none"> <li>• Senior Strategic Analyst</li> <li>• Data/Information Manager</li> </ul>
MSc Information Systems and Technology MSc Information Management	<ul style="list-style-type: none"> <li>• Systems Architect</li> <li>• Database Administrator /Manager</li> </ul>	<ul style="list-style-type: none"> <li>• IS Developer/Technologist</li> <li>• IT Manager</li> </ul>
MSc Information Science MA/MSc Library Science MA/MSc Information Management in the Cultural Sector	<ul style="list-style-type: none"> <li>• Librarian</li> <li>• Knowledge Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Information Manager</li> <li>• Web Content Manager</li> </ul>
MSc Health Informatics	<ul style="list-style-type: none"> <li>• Health Information Manager</li> </ul>	
MSc Resilience, Assurance and Risk Management for Computer-Based Systems	<ul style="list-style-type: none"> <li>• IT Systems Architect</li> <li>• Information Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Risk Manager</li> <li>• IT Systems Manager/Consultant</li> </ul>
MInnov/MSc Innovation, Creativity and Leadership	<ul style="list-style-type: none"> <li>• Innovation Manager/Director</li> <li>• IT Manager/Director</li> </ul>	<ul style="list-style-type: none"> <li>• R&amp;D Manager/Director</li> <li>• Projects Manager/Director</li> </ul>

# MSc Business Systems Analysis and Design

08



## Overview

The course will equip you with specialist knowledge ranging from business systems requirements analysis and design, software systems engineering and data modelling to IT strategy, project management and business engineering with ERP solutions.

Practical work is emphasised throughout to develop understanding and skills which are strengthened by the interactive teamwork approach. The course has an excellent track record in producing highly employable hybrid IT/business professionals.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (evenings)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight taught modules and the research project will be awarded a Master of Science (MSc) degree.

All modules in this course are supported by the University's innovative online learning environment, CitySpace.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification. Previous academic and commercial experience will be considered. Applicants should have good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

## Employment opportunities

You will be prepared for employment in roles such as systems analyst, IT consultant and systems integrator – understanding the role IT systems play in supporting organisations and management and ensuring that IT systems fulfil their intended role.

## Further studies

After the completion of the course candidates may consider a PhD degree towards an academic/research career.

## Professional accreditation



This course is accredited by the British Computer Society (BCS). Graduates from the course are exempt from the BCS Certificate, Diploma and Diploma Project.

## Internships

This course offers an optional internship: six months of professional IT industry experience as part of your postgraduate degree.

## Modules include:

Eight core taught modules:

- Business engineering with ERP solutions
- Databases
- Project management
- Human-computer interaction design
- Information systems planning and strategy
- Practical business systems consultancy
- Research methods and professional issues
- Systems specification or Requirements engineering\*

Students also take an independent research project.

\* Students can choose between these two modules. You will be asked to make a choice at the start of your studies, after consultation with the course director and module leaders. Part-time students should note that the Requirements engineering module is not offered in the evenings.

## SAP Certification



Extending our long-established relationship with SAP, we now offer SAP Certification training. MSc students are now eligible to register for the SAP TERP10 Certification course at a substantial discount.

## The course develops:

- Skills in business awareness, design and consultancy to facilitate the alignment of IT systems and services to business objectives
- The specialist understanding of theoretical principles in business systems analysis and design
- Technical skills, through practical laboratory work, to enable students to apply their knowledge of IT and how it affects business competitiveness



**Novel Tjahjadi**  
MSc Business Systems Analysis and Design  
IT Project Manager, Schlumberger

*"I found my classes at City interesting and extremely eye-opening, because they were very dynamic. There was an open communication between the lecturers and the students which stimulated and enhanced the contents of the subjects being discussed. What I enjoyed the most about the course was that the curriculum contained both theory and practical aspects of information systems."*



## Employment opportunities

You will be prepared for employment as high-quality software development professionals who have the wider business knowledge necessary for e-business enabled enterprises.

## Further studies

After the completion of the course candidates may consider a PhD degree towards an academic/research career.

## Professional accreditation



This course is accredited by the British Computer Society (BCS). Graduates from the course are exempt from the BCS Certificate, Diploma and Diploma Project.

## Internships

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## SAP Certification



Extending our long-established relationship with SAP, we now offer SAP Certification training. MSc students are now eligible to register for the SAP TERP10 Certification course at a substantial discount.

## Modules include:

Eight core taught modules:

- Business engineering with ERP solutions
- Databases
- E-commerce
- Human-computer interaction design
- Programming in Java
- Research methods and professional issues
- Software systems design
- Systems specification

Students also take an independent research project.

## The course develops:

- Skills in developing software using modern programming languages and methods
- Skills in designing and creating e-business software systems to solve realistic problems
- Skills in evaluating and using different standards, platforms and architectures for building interoperable e-business systems

## Overview

The course is professionally focused, providing the knowledge and skills necessary for embarking on a career as a technically competent business software developer, in areas such as programming, databases, design and specification as well as relevant business topics such as ERP and e-commerce. In addition to its strong practical orientation, the course also provides the knowledge of research principles and methods and techniques necessary for undertaking research in the field of software engineering or e-commerce.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight taught modules and the research project dissertation will be awarded a Master of Science (MSc) degree.

All modules in this course are supported by the University's innovative online learning environment, CitySpace.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification. Previous academic and commercial experience will also be considered. Applicants should have basic competence and familiarity with mathematics and good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100



# MSc Software Engineering

10



## Overview

This industry-focused course will extend your prior computing education, experience and skills by providing you with a thorough knowledge of software development as a technological and engineering discipline.

The focus of the course is on advanced engineering concepts and methods, as well as design issues for the development of high-quality complex software systems. These are explored using industrial strength technologies, such as the C++ object-oriented programming language and the UML modelling language.

The course will cover significant trends in systems development, including service-oriented architecture, open-source systems and XML-enabled interoperable services. The course is delivered by acknowledged experts in software engineering and draws on our world-class research in this area.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight taught modules and the research project dissertation will be awarded a Master of Science (MSc) degree.

All modules in this course are supported by the University's innovative online learning environment, CitySpace.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification. Previous academic and commercial experience will also be considered. Applicants should have significant previous exposure to computing, especially programming and relational databases.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

## Employment opportunities

You will be prepared for employment in software houses, consultancies and with major software users, such as the financial sector, where there is a significant demand for professionals with a deep knowledge of advanced software development and a rigorous engineering practice.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Professional accreditation



This course is accredited by the British Computer Society (BCS). Graduates from the course are exempt from the BCS Certificate, Diploma and Diploma Project.

## Internships

This course offers an optional internship: six months of professional IT industry experience as part of your postgraduate degree. For more information visit our website.

## SAP Certification



Extending our long-established relationship with SAP, we now offer SAP Certification training\*. MSc students are now eligible to register for the SAP TERP10 Certification course at a substantial discount.

\* Only for students who choose and complete the Business engineering with ERP solutions module.

## Modules include:

Eight core taught modules:

- Programming in C++
- Advanced databases
- Requirements engineering or Business engineering with ERP solutions\*
- Open source systems
- Research methods and professional issues
- Systems specification
- Software systems design
- Service-oriented architectures

Students also take an independent research project.

\* Students can choose between these two modules. You will be asked to make a choice at the start of your studies, after consultation with the course director and module leaders.

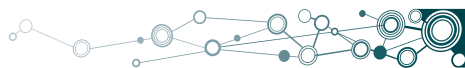
## The course develops:

- Skills in analysing user requirements and designing appropriate software solutions
- Skills in designing and creating complex software systems to solve real-world problems
- Skills in evaluating and using advanced software engineering environments, design methods and programming languages
- Skills in evaluating and responding to recent trends in interoperability and software development



**Chris Nicholls**  
Consultant,  
Adelard LLP  
MSc Software  
Engineering

*"The City lecturers were first class; knowledgeable, patient and thorough. My course modules complemented each other well, examining software at varying levels of detail: the broader socio-economic picture, the user perspective, high-level architecture, detailed design, as well as the coding itself. This course fundamentally changed the way I approach software development, and has equipped me with a set of techniques and principles that I use daily in my professional life."*



## Employment opportunities

You will be equipped with advanced knowledge of, and skills in, a range of topics in games technology in preparation for a career in computer games development.

Professional roles include:

- 3D graphics programmer
- Audio programmer
- Physics programmer
- AI programmer
- Simulation and game engine programmer
- Tools, utility and scripting programmers

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.



**Chris Child**  
Lecturer, and  
Computer Game  
Company Director,  
Childish Things Ltd

*“The video games industry is a booming sector. In 2009 we experienced record-breaking sales, generating more revenue than the film industry and overtaking the music industry for the first time. New consoles and accessible genres made gaming into a mainstream social activity across the board (the majority of the casual gaming market is female). This has created off-the-charts consumer demand, and boosted innovation. Describing it as ‘exciting’ to work behind the scenes is somewhat of an understatement.”*



## Professional accreditation



This new course will be reviewed by the BCS at their next visit. BCS exemptions and accreditations can be back-dated to cover students taking this course from 2008/09 onwards.

## Internships

This course offers an optional internship: six months of professional IT industry experience as part of your postgraduate degree.

## Modules include:

Eight core taught modules:

- Programming in C++
- Games development process
- Computer graphics
- Games physics and AI
- Music technology for games
- Computer games architecture
- Systems specification
- Research methods and professional issues

Students also take an independent research project.

## Overview

This course is designed for graduates of computing-related degrees who want to develop their career in the games industry by further specialising their existing undergraduate education or who wish to update their skills after time in industry as a computing professional, and for those with equivalent experience.

In particular, the project component gives students an opportunity to carry out an extended piece of work under the supervision of one of our specialist academic and research staff, at the cutting edge of games technology, in an industrial or academic context.

## Duration and Assessment

Full time: 12 months (evening and daytime)  
Part time: up to 28 months (evening and daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation.

All modules in this course are supported by the University's innovative online learning environment, CitySpace. Students successfully completing eight taught modules and the research project will be awarded a Master of Science (MSc) degree.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university in a numerate subject, plus substantial prior computing coverage, a recognised equivalent from an accredited overseas institution or an equivalent professional qualification. Applicants should have good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

Previous academic and commercial experience will also be considered.

# MSc Human-Centred Systems

12



## Overview

This course is delivered by the internationally renowned Centre for Human-Computer Interaction Design (HCID) and is suitable for those with a background in computing or programming. No prior exposure to the topics of Human Computer Interaction (HCI) or User-Centred Design (UCD) is necessary.

The course will provide you with skills in designing and evaluating interactive systems and other types of computer-based systems in which people are a major element. You will acquire skills in advanced human-computer interaction design, requirements analysis and design, designing and conducting complex evaluations of new or existing software computing systems and unique expertise in designing and evaluating systems for people with disabilities and the elderly.

You will benefit from being able to use the new HCID interaction lab, established with the support of the Vodafone UK Foundation and equipped with the latest technology.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months  
(mainly daytime/some evenings)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing seven core taught modules and the research project will be awarded a Master of Science (MSc) degree.

All modules in this course are supported by the University's innovative online learning environment, CitySpace.

As a student on this course, you will also benefit from a strategic alliance between City University London and the University of Uppsala in Sweden, which supports exchanges of teaching staff and students to enrich the learning experience.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification. Applicants should have a background in computing. Previous academic and commercial experience will also be considered. Applicants should also have basic competence and familiarity with mathematics and good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

## Employment opportunities

You will be prepared for employment in roles such as usability and accessibility specialist, interaction designer and information architect.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Professional accreditation



This course is accredited by the British Computer Society (BCS). Graduates from the course are exempt from the BCS Certificate, Diploma and Diploma Project.

## Internships

This course offers an optional internship: six months of professional IT industry experience as part of your postgraduate degree.

## Modules include:

Seven core taught modules:

- Advanced topics in human-computer interaction
- Evaluation of systems
- Human-computer interaction design
- Inclusive design
- Requirements engineering
- Research methods and professional issues
- Systems specification

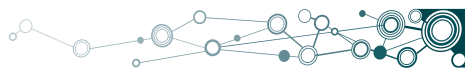
Students also take an independent research project followed by one elective module from a selection below:

- Multimedia
- Visualising information in human-computer interaction
- Creativity in design



**Ruairi Galavan**  
MSc Human-Centred Systems  
Analyst, iQContent

*“The course was excellent. It provided me with the skills, knowledge and know-how I needed to jump-start my career as a usability analyst; not to mention the confidence it gave me in being able to hit the ground running when arriving in the workplace. Whilst completing my internship at iQContent, I was able to employ the wealth of skills that I had amassed during the MSc.”*



## Employment opportunities

You will be prepared for employment in the interactive publishing industry, pursuing creative as well as managerial roles, such as: web editor, internet content manager, web producer, web developer and creative manager of web and emerging technologies. Our employment record is excellent and our graduates are working at some of the leading organisations in the field, not just in the UK but across the world.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Internships

This course offers an optional internship: six months of professional IT industry experience as part of your postgraduate degree.

## Modules include:

Four taught core modules:

- Writing and editing for electronic media
- Digital information technologies and architectures
- Human-computer interaction design
- Research methods and professional issues

followed by four elective modules from a selection below:

- Design and layout for electronic media
- Web applications development
- Advanced human-computer interaction
- Databases
- E-commerce
- Multimedia
- Open source systems
- Information law and policy
- Project management

Students also take a final project.

## Overview

Delivered jointly by the Department of Information Science and the Department of Journalism, this course offers a unique combination of specialist knowledge in areas such as design, publishing, technology and content production.

City University London's Master's in E-publishing is one of the longest established and best recognised courses of its type. We produce graduates with immediately marketable skills in the content creation, design, technology, and business and management processes relevant to electronic publishing.

You will be encouraged to collaborate with organisations involved professionally in electronic publishing as part of your coursework and final project.

You will also benefit from superb computing and audiovisual equipment and facilities, including dedicated PC/Mac labs with specialist software, broadcast quality audio and video studios.



**Ben Lupton**  
MA/MSc Electronic Publishing  
Project Manager/  
UI Designer

*"The MSc in Electronic Publishing at City was excellent. It was a frantic 12 months – I designed and tested a computer game prototype, built a web site for a community radio station, and interviewed some incredibly important people at the BBC, Sky News and the Times for my dissertation on online newsrooms. I now create e-learning products in Flash for major Japanese companies such as Fujitsu as well as for international education publishers. I can honestly say that I use what I learnt at City almost every day in my role. If you want to pursue a career in new media, whether it be in production or management, then this MSc will give you a massive head start."*

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus an individual project leading to a dissertation.

Students successfully completing eight taught modules and the final project dissertation will be awarded either a Master of Arts (MA) or a Master of Science (MSc) degree.

Most modules in this course are supported by the University's innovative online learning environment, CitySpace.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification. Work experience in some aspect of publishing or the information industry, or evidence of participation in some relevant activity (e.g. student journalism, construction of web pages) will be advantageous.

Previous academic and commercial experience will also be considered. Applicants should have good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

# MSc Information, Communication and Society

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## Overview

This course provides a combination of technical and social competencies and skills central to working in today's information society.

You will learn theories and concepts of how social behaviours have been reformed by technological innovations, such as Web 2.0 and mobility of information.

Taught by experts in these fields, the course will provide you with established methodological approaches to address social connotations of the wealth and ubiquity of information – through intellectually stimulating discussions accompanying conventional lectures and labs.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months

The course is assessed mainly by coursework, but some elective modules may have an exam component. Upon a successful completion of the required combination of modules students proceed to the dissertation - an interdisciplinary, independent research supervised by experts from both the School of Informatics and the School of Social Sciences leading to the award of a Master of Science (MSc) degree.

All modules in this course are supported by the University's innovative online environment, CitySpace.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification.

Applicants without a degree can apply provided they have substantial professional experience in the media, information services or the communication sectors.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

## Scholarships

There are scholarships available from the School of Social Sciences and School of Informatics. For information, please visit our website.

## Employment opportunities

Upon graduation, you will be prepared for employment in local, national and international government institutions and related organisations, non-governmental organisations where a combined expertise in the use of technology to manage and disseminate digital information, and societal aspects of the transformations the information age introduced, are required.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.



## Modules include:

Four core taught modules:

- The Information Society
- Information and Knowledge Management
- Digital Information Technologies and Architectures

- Approaches to Social Research

followed by three elective modules from a selection below:

Electives from Sociology

- Political Communications
- Media Information Markets
- Democratisation, Information and Communication
- Transnational Media and Communication
- Representation and Reception
- Surveillance Studies: Theories and Concepts
- Feminism and the Media: Representation, Technology and Change

Electives from Information Science

- Information Retrieval
- Digital Libraries
- Information Law and Policy
- Web Applications Development
- Multimedia
- Open Source Systems
- Mobile Information Architecture

Students take an independent research project.

The course is designed to prepare you to create, access and manage digital information in your own field of expertise and interest so that you can fully employ technology to address social and political aspects of information, communication and society today.

## Applications

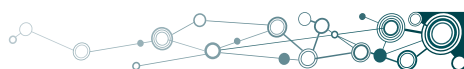
This course is administered by the School of Social Sciences.

Sociology Postgraduate Admissions  
School of Social Sciences  
City University London  
Northampton Square  
London EC1V 0HB

Tel: +44 (0)20 040 8500

Fax: +44 (0)20 040 8580

Email: socscipg@city.ac.uk



## Employment opportunities

You will be prepared for employment in information systems management roles in large and small organisations, including banks, consultancies, pharmaceutical and IT industries, central and local government, and the education and health sectors.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Professional accreditation



This course is accredited by the British Computer Society (BCS). Graduates from the course are exempt from the BCS Certificate, Diploma and Diploma Project.

## Internships

These courses offer an optional internship: six months of professional IT industry experience as part of your postgraduate degree.

## Modules include:

The course includes five core modules:

- Databases
- Digital information technologies and architectures
- Information and knowledge management
- Research methods and professional issues
- Systems specification

In addition to the five core modules, students on this course will choose three elective modules from the list\* below:

- |   |                           |
|---|---------------------------|
| ■ Information law and policy              | <i>Stream information</i> |
| ■ Information retrieval                   | <i>information</i>        |
| ■ Open source systems                     | <i>systems</i>            |
| ■ Project management                      | <i>systems</i>            |
| ■ Business engineering with ERP solutions | <i>systems</i>            |
| ■ Software systems design                 | <i>systems</i>            |
| ■ Programming with Java                   | <i>technology</i>         |
| ■ Web applications technology             | <i>technology</i>         |
| ■ Multimedia                              | <i>technology</i>         |
| ■ Mobile information architecture         | <i>technology</i>         |

\*These elective modules are subject to change.

## Overview

**Information systems are a key part of an organisation's IT infrastructure. IT professionals who can manage a business's information resources, and understand the technologies and systems that enable this are key to a modern enterprise's success.**

**This degree prepares you for a professional career in information systems and the business services they provide. It takes a broad view of how organisations use information to maintain competitive advantage using City's expertise in both computing and information management.**

**As this course shares a common first term with the degree in Information Management, you can decide on your area of focus once you are in a position to make an informed choice.**

## The course develops:

- An understanding of the characteristics of information systems, their management and technology, and their effective use within organisations
- Skills in evaluating and selecting appropriate methods and technologies for representing, managing and disseminating information
- Skills in contributing to the management of organisational information and the development of information systems using sound principles and modern techniques
- An appreciation of the necessary legal, ethical and professional values appropriate to the provision and management of information services

## SAP Certification



Extending our long-established relationship with SAP, we now offer SAP Certification training\*. MSc students are now eligible to register for the SAP TERP10 Certification course at a substantial discount.

\* Only for those students who choose and complete the Business engineering with ERP Solutions module.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight modules and the dissertation will be awarded a Master's level qualification.

All modules in this course are supported by the University's innovative online learning environment, CitySpace. E-learning support allows some flexibility in study.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification.

Applicants should have basic competence and familiarity with mathematics and good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100



**Alex Lambert**  
MSc Information Systems and Technology  
Technology Project Manager

*"The course is perfect for anyone looking to start, or further, their career in technology. After completing the course I joined the graduate scheme of a large financial institution in the City of London. The course modules that I studied were put to use immediately in my job and have continued to be extremely useful as time has gone on."*

# MSc Information Management

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## Overview

Information systems are a key part of an organisation's IT infrastructure. IT professionals who can manage a business's information resources, and understand the technologies and systems that enable this are key to a modern enterprise's success.

This degree provides a specialist focus on the management of information and utilising information systems in organisations to provide effective information services.

As this course shares a common first term with the degree in Information Systems and Technology you can decide on your area of focus once you are in a position to make an informed choice.

Your understanding of information and its role in organisations will enable you to align the enterprise and its information systems. The course will equip you to develop your career in roles that include the management of business information and related services.

This prepares you for a range of information (system) management roles often found in banks, consultancies, pharmaceutical and other industries, central and local government, the education and health sectors, for example. The course is also excellent preparation for doctoral (PhD) study.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight modules and the dissertation will be awarded a Master's level qualification.

All modules in this course are supported by the University's innovative online learning environment, CitySpace. E-learning support allows some flexibility in study.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification.

Applicants should have basic competence and familiarity with mathematics and good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

## Employment opportunities

You will be prepared for employment in information systems management roles in large and small organisations, including banks, consultancies, pharmaceutical and IT industries, central and local government, and the education and health sectors.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Professional accreditation



The course is accredited by the Chartered Institute of Library and Information Professionals (CILIP).

## Internships

These courses offer an optional internship: six months of professional IT industry experience as part of your postgraduate degree.

## Modules include:

The course includes five core modules:

- Databases
- Digital information technologies and architectures
- Information and knowledge management
- Research methods and professional issues
- Systems specification

In addition to the five core modules, students on this course will choose three elective modules from the list\* below:

### Stream

- |   |                    |
|---|--------------------|
| ■ Geovisualisation                        | <i>information</i> |
| ■ Information domains                     | <i>information</i> |
| ■ Information law and policy              | <i>information</i> |
| ■ Information retrieval                   | <i>information</i> |
| ■ Open source systems                     | <i>systems</i>     |
| ■ Business engineering with ERP solutions | <i>systems</i>     |
| ■ Project management                      | <i>systems</i>     |

\* These elective modules are subject to change.

## The course develops:

- An understanding of the characteristics of information systems, their management and technology, and their effective use within organisations
- Skills in evaluating and selecting appropriate methods and technologies for representing, managing and disseminating information
- Skills in contributing to the management of organisational information and the development of information systems using sound principles and modern techniques
- An appreciation of the necessary legal, ethical and professional values appropriate to the provision and management of information services

## SAP Certification



Extending our long established relationship with SAP, we now offer SAP Certification

training\*. MSc students are now eligible to register for the SAP TERP10 Certification course at a substantial discount.

\* Only for those students who choose and complete the Business engineering with ERP Solutions module.



## Key features include:

- Balance between academic rigour and professional relevance
- Research-based teaching, emphasising the relevance of research for professional success
- Use of practitioner lecturers as well as academic staff
- Balance between face-to-face teaching, taking advantage of our central London location, and e-learning support
- International outlook, with a possibility of study abroad
- Collaboration with the main information-sector recruitment agencies, to ensure course relevance and assist in graduate employment

## Professional Accreditation



This portfolio of courses is accredited by the Chartered Institute of Library and Information Professionals (CILIP).



**Emily Allbon**  
MSc Information Science  
Law Librarian

*“A very rewarding twelve months. This is a great time for those beginning a career in the field of information and anyone considering this pathway would be sure to be inspired by the courses run by the Department of Information Science at City.”*

## This portfolio of courses includes:

- MSc Information Science
- MA/MSc Library Science
- MA/MSc Information Management in the Cultural Sector

**These courses are overseen by the Department of Information Science and are taught by internationally recognised academics and professional practitioners, taking advantage of City’s London location and our connections with major players in the information industry today.**

**Each of the courses provides an introduction to information-related academic disciplines, and a preparation for a career in the information professions.**

## Employment Opportunities

Courses are accredited by the Chartered Institute of Library and Information Professionals (CILIP). Our graduates have an excellent record of finding suitable jobs, and going on to successful careers.

Internships are not a part of these courses, but students who wish to are usually able to obtain work experience (paid or voluntary), or to work with external organisations in completing assignments or carrying out a dissertation project.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Course structure:

All the courses require completion of eight taught modules, (seven core and one elective for Library Science and Information Science, six core and two electives for Information Management in the Cultural Sector), plus an individual dissertation, based on a research project. Students on the Information Science and Library Science courses study five modules in common (students on the MSc Information Management in the Cultural Sector study four modules from the Department of Information Science), giving a broad understanding of the basics of information studies.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight modules and the dissertation will be awarded a Master’s level qualification.

All modules in this course are supported by the University’s innovative online learning environment, CitySpace. E-learning support allows some flexibility in study.

These courses are built around a shared structure and have several modules in common. Students are usually able to transfer between these courses during their first term.

## Entrance requirements

The minimum entry requirement is a good second class Honours Degree from a UK university, a recognised equivalent from an accredited international institution or an equivalent professional qualification. Previous relevant professional experience will also be considered.

Applicants should also have good professional English.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5, with a minimum of 7.0 in writing for those applying to the MSc Information Management in the Cultural Sector
- TOEFL (internet-based): 100

Applicants to the MSc Information Management in the Cultural Sector should be able to demonstrate commitment to a career in the cultural sector.



## MSc Information Science

This course, taught at City since 1967, is especially suitable for those interested in information provision in particular subject domains, such as healthcare, law or business, and in the use of technology to handle information within these areas.

You will be prepared for employment in roles such as medical information officer, information researcher/specialist, editor, publisher, web content manager, records manager, special librarian, customer trainer and prospect researcher, among many others.

Students on this course will study the following seven core modules:

- Library and Information Science Foundation
- Information Resources and Organisation
- Information Management and Policy
- Digital Information Technologies and Architecture
- Research Methods and Professional Issues
- Information Retrieval
- Information Domains

and one elective module, chosen from a range which typically includes:

- Libraries and Publishing in the Information Society
- Information Law and Policy
- Independent Study
- Web Applications Development
- Health Policy and Information Management
- Open Source Systems
- Geographic Information Technology and Applications

### Susan Dyke MSc Information Science Information Scientist

*“The year I spent at City was not only enjoyable (intellectually as well as socially), but has also turned out to be my best investment of time and effort to date - and I’m still reaping the benefit. I simply can’t recommend the course or the Department highly enough.”*

## MA/MSc Library Science

This course focuses on library services of all kinds, and on the migration of such services towards digital collections and environments. It is intended primarily for those working in, or planning to work in, such services.

You will be prepared for employment in public, academic and school libraries, consultancies, special libraries and information services, and publishing, among other career choices.

Students on this course will study the following seven core modules:

- Library and Information Science Foundation
- Information Resources and Organisation
- Information Management and Policy
- Digital Information Technologies and Architecture
- Research Methods and Professional Issues
- Digital Libraries
- Libraries and Publishing in the Information Society

and one elective module, chosen from a range which typically includes:

- Information Domains
  - Information Law and Policy
  - Independent Study
  - Web Applications Development
  - Open Source Systems
  - Audiences and Marketing
  - Education and Training in the Cultural Sector
  - Programming and its Management
  - Evaluation, Politics and Advocacy
- (the latter four electives are run by the Department of Cultural Policy and Management).

## MA/MSc Information Management in the Cultural Sector

This course caters for those with a specific interest in information handling in arts, culture and heritage organisations, designed equally for those already working in the field, and those wishing to move into it, including mid-career moves. It brings together joint teaching from the Schools of Informatics and Arts, giving equal weight to the two perspectives, and providing a unique background for developing an understanding of this environment.

You will be prepared for employment in information services in galleries and museums, archives, and special libraries.

Students on this course study two modules from the Department of Cultural Policy and Management:

- Culture, policy and management – frames of reference
- Cultural portfolio: critical immersion and professional development

and four from the Department of Information Science:

either

- Library and Information Science Foundation
- Information Resources and Organisation
- Digital Libraries
- Digital Information, Technologies and Architecture

or

- Independent Study
- Information Management and Policy
- Libraries and Publishing in the Information Society
- Research Methods and Professional Issues plus two electives chosen from a wide range which typically includes:
  - Audiences and marketing
  - Communications, fundraising and advocacy
  - Comparative international models of cultural policy
  - Cultural planning
  - Currents of criticism
  - Education and learning in the cultural sector
  - Financial planning and entrepreneurialism
  - Evaluation, politics and advocacy
  - Law and cultural management
  - Managing organisations
  - Managing people
  - Post-colonial agendas: the other, identity and the culture of politics
  - Programming
  - Contemporary UK cultural policy



## Employment opportunities

You will be prepared for employment in the health service (both state and private sectors in the UK and internationally) and in related healthcare industries and organisations. The course has a successful track record of producing more than 300 very employable graduates over the past 18 years.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Internships

This course offers an optional internship: six months of professional IT industry experience as part of your postgraduate degree.



## Modules include:

The course comprises eight core modules:

- Clinical records
- Databases
- Digital information technologies and architectures
- Data analysis with healthcare applications
- Information for decisions in healthcare
- Research methods and professional issues
- Knowledge management in healthcare
- Telemedicine

Students also take an independent research project.

## Dr Graham Smith MSc Health Informatics

*“The combination of health informatics modules together with the generic informatics modules has provided me with the specialist health-related knowledge I needed. The work has been intellectually challenging. The most important outcome of the course is that I now have the knowledge and ability to challenge any assumptions that either I, or others, may have. It is very empowering in the workplace.”*

## Overview

City University London’s MSc in Health Informatics is the longest-established postgraduate course in this field in Europe. Typical applicants are clinical and allied health professionals who wish to enhance their careers and computer scientists, engineers and others with relevant technical or professional qualifications who wish to move into a successful career involving the application of ICT in the health service and associated industries.

You will be part of a highly multi-professional and international cohort and will benefit from a course of lectures given by leading experts and from the University’s central location, close to many hospitals and medical centres.

## Duration and Assessment

Full time: 12 months  
Part time: up to 28 months (daytime)

The course is assessed by a mixture of coursework and examination, plus a project dissertation. Students successfully completing eight modules and the dissertation will be awarded a Master’s level qualification.

All modules in this course are supported by the University’s innovative online environment, CitySpace.

## Entrance requirements

The minimum entrance requirement is a good second class Honours Degree from a UK university in a medical or numerate subject, a recognised equivalent from an accredited

International institution or an equivalent professional qualification. Other degree subjects or professional qualifications can be accepted if a candidate has subsequently had relevant health service or industrial experience.

Applicants should have good professional English in order to understand and produce literature of a complex technical nature.

For those students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

# MSc Resilience, Assurance and Risk Management for Computer-Based Systems

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## Overview

This course is designed to enable professionals to manage risks to safety, reliability and security in a technical or management role in system development, procurement, operation or licensing. You can enrol in a Masters, a Postgraduate Diploma or a Postgraduate Certificate, or take individual modules as CPD (Continuing Professional Development).

Information Technology is vital to most organisations and engineered systems. However, although it brings great advantages, it can also bring new risks. For instance, in business, loss of company data can lead to bankruptcy. In industrial, medical and many other applications, computer failure may endanger lives, property, and the environment.

Indeed, vital IT systems can be built out of off-the-shelf parts with uncertain levels of trustworthiness. These systems, and the organisations depending on them, are affected by multiple risks, including physical failures, malicious attacks, design faults and user errors. Dealing with these threats requires a unified, system-level understanding of both the technical and the human components of resilience.

## Duration and Assessment

The MSc, PG Dip and PG Cert are all part-time courses only, delivered as sets of modules. Each module includes a one-week intensive learning period (lectures, group exercise in lab or workshop sessions, and self-directed study) followed by a period of self-directed study and final assessment. You will be assessed by a mixture of coursework and examination.

The MSc course lasts typically for 28 months; it can also be completed by taking modules over several years. Students successfully completing eight taught modules and a final project will be awarded a Master of Science (MSc) degree.

The PG Dip lasts typically for two years. Students who successfully complete eight taught modules (without the dissertation) will be awarded a Postgraduate Diploma (PG Dip).

The PG Cert lasts typically up to two years depending on the modules chosen. Students who successfully complete four taught modules will be awarded a Postgraduate Certificate (PG Cert).

Additionally, modules can be taken individually as CPD (Continuing Professional Development).

## Entrance requirements

You should have a first or second class Honours Degree (or equivalent non-UK qualification). Preference will be given to candidates with suitable work experience in developing, supporting, or managing IT systems, and such experience is mandatory if the topic of your Honours Degree is not computing-related.

You should also have basic competence and familiarity with mathematics and good professional English.

For students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

## Employment opportunities

This course will appeal to companies and professionals that need to develop or improve their capability in managing IT-related risk, in order to enter markets with higher demands of dependability and security, comply with new regulations, or re-qualify for new roles.

Typical students will be:

- Professionals with experience in developing, supporting or managing IT systems, wishing to progress to higher-level management or project management roles related to risk, safety, security, availability and business continuity
- Graduates in computing-related disciplines, wishing to gain a competitive edge in the developing labour market

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Internships (MSc only)

Students may undertake their project work within their company of employment or take advantage of our internship scheme. This allows for up to six months of professional industry experience as part of your postgraduate degree. Our contacts include high technology and high assurance companies in the UK and the US.

## Modules include:

Eight core taught modules:

- Introduction to dependability and resilience
- Software dependability and software risk management
- Information security assurance and digital forensics
- Socio-technical systems, risk and resilience
- Fault tolerance, redundancy and diversity: design and analysis techniques for resilience
- Probabilistic modelling of dependability for computer-based systems
- Techniques for software correctness
- Assurance cases for security, safety, dependability

MSc students also do an individual project.

## The course develops:

- Specific techniques for achieving and assessing reliability, availability, security, safety, and information assurance
- The common principles that underlie and link these techniques



## Employment opportunities

Having built rounded, world-class expertise in the professional leadership of innovation and creativity, graduates who complete this course might expect to gain senior management roles in a range of functions, including marketing, R&D, media, knowledge management, administration, the arts and innovation - in either the private or the public sector.

## Further studies

After the completion of the course candidates may consider a PhD degree, towards an academic/research career.

## Internships (MSc & MInnov only)

Students may undertake their project work within their company of employment.

## Modules include:

Eight core taught modules (delivered by the Cass Business School, the School of Social Sciences, the School of Arts, the School of Informatics, the Law School and the Learning Development Centre):

- Creative Problem Solving
- Creative Writing
- Psychology of Creativity and Innovation
- Creative Design Processes
- Delivering Innovation
- Technologies for Creativity and Innovation
- The Law, Creativity and Innovation
- Performance Art and the Cultural Sector

Masters students also do an individual project.

## Overview

**This Masters programme offers a rare, perhaps unique, opportunity to study Innovation, Creativity and Leadership from a fully rounded, interdisciplinary perspective, learning from leaders in each of the disciplines.**

**The programme aims to provide senior and middle managers (in both private and public sectors) with new knowledge and skills that will enable individuals, groups and organisations to behave more creatively and deliver more breakthrough innovation solutions.**

**It will give managers an in-depth understanding of what creativity and innovation is in different domains. It will offer them a wide range of creative and innovation processes, techniques and tools. It will make them aware of individual and organisational constraints on creativity and innovation, and how these constraints can be overcome in different businesses and professions.**

## The course develops:

- Understanding of the forms of creativity and innovation in different professional practices and the challenges that impede the effective leadership of creativity and innovation in organizations
- Understanding how to use imagination, memory and observation to tell stories and devise dramatic situations that can be used in creative problem-solving and innovation and change processes
- Understanding of managerial competencies and leadership behaviours associated with employee innovation and creativity
- Skills to lead individuals and teams to solve problems using established creative problem-solving methods and non-scientific ways of problem understanding and solving and support this with systematic processes for transmitting novelty into valuable new strategies, products and services that deliver innovation in business
- Skills to solve problems and learn in an effective trans-disciplinary manner that can include reflection on practice

## Duration and Assessment

The MSc, MInnov, PG Dip and PG Cert are all part-time courses only, delivered as sets of modules. The taught modules will be delivered both weekly, one half-day per week, and in block half-week periods. The teaching structures will enable the University to offer some of the new modules in CPD mode. Students who have taken the CPD modules including the coursework, will be allowed to take these credits to the MSc/PGDip/PGCert if they register within 4 years. Students will be assessed fully using individual and group coursework based on practice-based learning rather than through formal examinations.

The MSc course lasts typically for 28 months; it can also be completed by taking modules over several years. Students successfully completing eight taught modules and a final project will be awarded either a Master of Science (MSc) degree or a Master of Innovation (MInnov) degree.

The PG Dip lasts typically for two years. Students who successfully complete eight taught modules (without the dissertation) will be awarded a Postgraduate Diploma (PG Dip).

The PG Cert lasts typically up to two years depending on the modules chosen. Students who successfully complete four taught modules will be awarded a Postgraduate Certificate (PG Cert).

Additionally, modules can be taken individually as CPD (Continuing Professional Development).

## Entrance requirements

You should have a first or second class Honours Degree (or equivalent non-UK qualification).

You should also have good professional English.

For students whose first language is not English, one of the following qualifications is also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

# Departments and Centres in the School of Informatics



## The Department of Computing

Academic and Research Staff: 18

Taught courses:

- Business Systems Analysis and Design
- E-Business Systems
- Software Engineering
- Computer Games Technology

The Department of Computing is a leading provider of high-quality, postgraduate education and is the base for a wide range of courses. We offer a number of systems and technology related Master's courses: e-Business Systems, Business Systems Analysis and Design and Software Engineering. We also offer an advanced Master's course in Computer Games Technology, enabling students to specialise by building on their existing computing qualification.

The Department has access to extensive, high-spec computing facilities for students, of which some are based in specialist School-run laboratories and some are provided by the University's Computing Services Department.

There are also numerous workstations and special facilities for use in research and development projects. Research activity within the Department continues to expand. The Department and its two associated independent research centres (the Centre for HCI Design and the Centre for Software Reliability) have secured significant external funding in software systems, software security and their other areas of research and have extensive contacts with industrial and commercial organisations and other universities in the UK and European Union.

Figures from the last Research Assessment Exercise classify at least 85 per cent of the Department's research as being "of international and national excellence" and several members of academic staff are internationally recognised experts sitting on advisory boards and steering committees of professional and scientific associations and groups.

Aside from the two independent centres named above, the Department supports research groups in the areas of Autonomous and Intelligent Systems, Music Informatics, Software Engineering, and Programming Languages and Technologies. Students on postgraduate courses may normally expect to be supervised by academics from a relevant group if they undertake a research-based project.

## The Department of Information Science

Academic and Research Staff: 12

Taught courses:

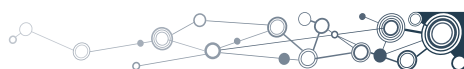
- Electronic Publishing
- Information Systems and Technology
- Information Management
- Information Science
- Library Science
- Information Management in the Cultural Sector

Information Science has been taught at postgraduate level at City University London for more than 40 years, longer than anywhere else in the UK. The Department of Information Science and its courses and research have a strong international reputation. Research activity has been rated a 5 for the last three Higher Education Funding Council's research assessment exercises.

Information Science ideas and methods, from once being the concern of a small professional group, have in recent years permeated many subjects and activities at different levels. This process has been driven in part by the widespread availability of information technology. However, the main stimulus has come from the increasing complexity and corporate awareness of problems of communication, information handling and information management, with or without technology, in a variety of disciplines.

All courses are accredited by either the Chartered Institute of Library and Information Professionals (CILIP), or the British Computer Society, (BCS). The Department's research centres, groups and areas include: the Centre for Information Science, the Centre for Interactive Systems Research (CISR) and the giCentre, which embraces a broad range of geographic information-based research, including information visualisation and the use of mobile and emerging technologies.

The Department is eligible for the award of both ESRC and EPSRC research studentships, and also receives Arts and Humanities Research Council and British Computer Society professional and vocational awards.



## The Centre for Human Computer Interaction Design

Academic and Research Staff: 16

Taught course:

- Human-Centred Systems

The Centre researches the design of sociotechnical systems – systems in which people and technologies depend on each other – with particular emphasis on user-centred requirements engineering; user diversity, with particular focus on disabled and elderly users; interaction design and usability evaluation; and understanding important aspects of design – creativity, communication and negotiation.

Many of the Centre's research staff and students are multi-disciplinary, with backgrounds in systems engineering, software engineering, human-computer interaction, psychology, social science, artificial intelligence and management science.

This research expertise and activity informs many aspects of the Centre's Master's course in Human-Centred Systems. Modules of human-computer interaction design, advanced human-computer interaction, evaluation of systems, inclusive design and requirements engineering are all taught by Centre staff who incorporate breaking research results and interests into their teaching. Individual projects are also expected to align with ongoing Centre research and consultancy activities.

The Centre has well-established links with industry, charity organisations and government agencies that have an interest in the topic of human-centred computing.

In the Centre's new interaction lab, sponsored by the Vodafone UK Foundation, cutting-edge technology enables students to explore and evaluate technology use. The Lab includes screen capture and eye-tracking equipment enabling sophisticated analyses of technologies, and different forms of interactive table technologies including Microsoft's surface.

## The Centre for Software Reliability

Academic and Research Staff: 12

Taught course:

- Resilience, Assurance and Risk Management for Computer-Based Systems

The Centre for Software Reliability (CSR) is an independent Research Centre in the School of Informatics, founded in 1983. CSR has an international reputation for its research achievements in the areas of software dependability (particularly safety and reliability) modelling, software fault tolerance, software metrics and quality assurance, and safety critical systems.

The Centre delivers the Systems Specification module and students undertaking projects in related topics can choose to be supervised by a member of the Centre's academic staff.

Since the 1996 Research Assessment Exercise (RAE), CSR has attracted funding of £3million in research grants and contracts, of which £2.1million comes from the UK's Engineering and Physical Science Research Council (EPSRC).

In addition CSR delivers CPD course in the area of forensics and incident investigation. Co-located with CSR is Adelard, a specialist safety and dependability consultancy. This provides a focus on real world problems that enriches the teaching and research.

## The Centre for Health Informatics

Academic and Research Staff: 3

Taught course:

- Health Informatics

The Centre for Health Informatics (CHI) has for more than 25 years been a designated Research Centre at City University, developing advanced concepts, methods and techniques of medical and health informatics for application in the solution of clinical and healthcare problems. It is also well known for a Masters degree (MSc) in Health Informatics which is producing future leaders who are equipped to function in mid-level information management and technology positions with a strong basis for continued career growth. The MSc curriculum embeds a problem solving and critical thinking framework in all of its modules. It is suited to responding to the healthcare industry's request for both increased emphasis in technical orientation and enhanced skill in individual and group interactions.

The Centre for Health Informatics has taught health informatics at MSc level for 18 years. We were the first institution in Europe to offer such a programme. A large number of our 300+ graduates are now pursuing successful careers in the NHS in health informatics, healthcare software solution providers and related fields.

In general, the intention of ICT in health care is to make two major contributions to an organization's operations: it automates tasks that are often people or paper intensive, enables superior workflows, and assists in reducing errors by providing a technology-aided decision-making process driven by access to reliable information and rules-based process consistency. The systems that deliver information and communications services in a health care organization combine both human and technical components.

The CHI also benefits from collaboration with a number of medical schools and hospitals, including Guy's, King's and St Thomas's School of Medicine (GKT) of King's College (University of London), Royal Brompton National Heart and Lung Hospitals and Royal London, St Bartholomew's Hospital. It engages in extensive co-operation with clinical, industrial and academic groups in 14 European countries.



## Contacting us

You can contact our Programmes Office as follows:

Programmes Office (A302)  
School of Informatics  
City University London  
Northampton Square  
London  
EC1V 0HB  
United Kingdom

Tel: +44 (0)20 7040 0248  
Fax: +44 (0)20 7040 0233  
Email: [pgenquire@soi.city.ac.uk](mailto:pgenquire@soi.city.ac.uk)

[www.soi.city.ac.uk/pgcourses/pg-admissions3](http://www.soi.city.ac.uk/pgcourses/pg-admissions3)

## Additional information and frequently asked questions

The list of contacts can be found on our postgraduate courses web page at: [www.soi.city.ac.uk/pgcourses](http://www.soi.city.ac.uk/pgcourses) including answers to the most frequently asked questions [www.soi.city.ac.uk/pgcourses/pg-admissionsfaq.html](http://www.soi.city.ac.uk/pgcourses/pg-admissionsfaq.html)

Please get in touch – we are happy to answer your questions and we look forward to hearing from you!

## Fees

Fees can be found in course pages on our website: [www.soi.city.ac.uk/pgcourses](http://www.soi.city.ac.uk/pgcourses) and click on the course of your choice.

## Services for students with disabilities or specific learning difficulties

Disability Services offers advice and support to students with disabilities and also houses the Dyslexia Support Unit. Applicants who may require these services and support are advised to contact Disability Services at an early stage on +44 (0)20 7040 0246 or email [disability@city.ac.uk](mailto:disability@city.ac.uk) to discuss their individual requirements.

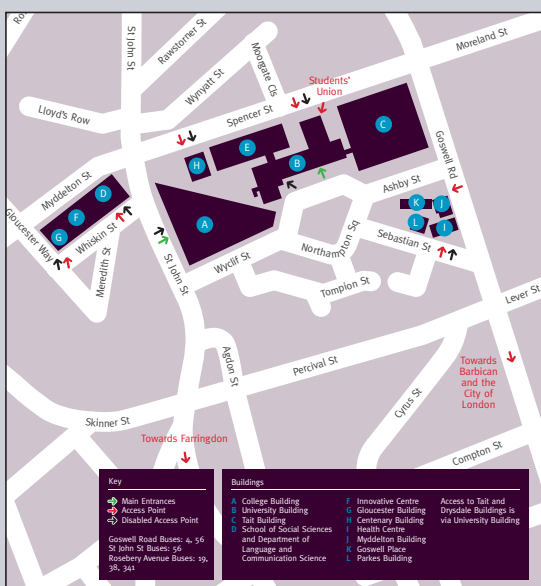
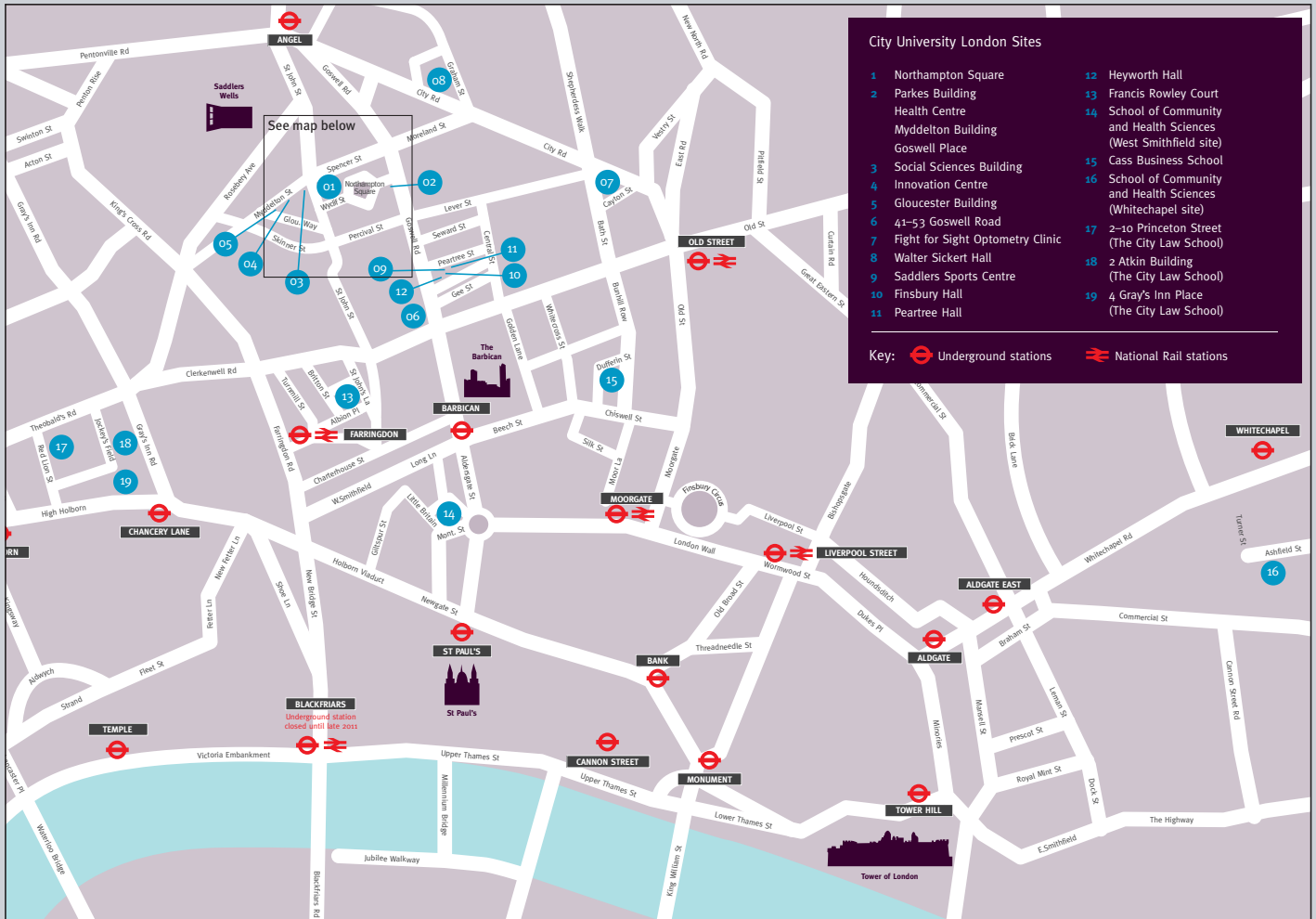
## Disclaimer

The information contained in this brochure is correct at the time of going to press in January 2010. The University reserves the right, arising from unforeseen events or circumstances beyond our control, to add to or remove courses, and to make changes in regulations, syllabuses, course options, timetables and modules fees etc, without prior notice.

General information about the University including fees, general entry requirements, accommodation and social and welfare services, is given in the Postgraduate Prospectus, which can be viewed or ordered online on the University's website: [www.city.ac.uk/study](http://www.city.ac.uk/study)



# Location map



## Postgraduate Courses in Computing and Information Science



MSc Business Systems Analysis and Design  
MSc e-Business Systems  
MSc Software Engineering  
MSc Computer Games Technology  
MSc Human-Centred Systems  
MA/MSc Electronic Publishing  
MSc Information, Communication and Society  
MSc Information Systems and Technology  
MSc Information Management  
MSc Information Science  
MA/MSc Library Science  
MA/MSc Information Management in the Cultural Sector  
MSc Health Informatics  
MSc Resilience, Assurance and Risk Management for Computer-Based Systems  
MInnov/MSc Innovation, Creativity and Leadership



**CITY UNIVERSITY  
LONDON**

School of Informatics  
City University London  
Northampton Square  
London  
EC1V 0HB  
United Kingdom

Tel: +44 (0)20 7040 0248  
Fax: +44 (0)20 7040 8587  
[www.soi.city.ac.uk/pgcourses](http://www.soi.city.ac.uk/pgcourses)