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# COMPUTING AND INFORMATION SYSTEMS

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The School of Computing and Technology aims to provide education, training, knowledge transfer and consultancy to support IT within the local, wider national and international context. As a result, our courses are designed to provide students with direct routes into, or promotion within, the computing and IT industries, and the IT user community.

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Computer Systems Management	FdSc	Direct application	Ealing	64
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Computing and Information Systems	BSc (Hons)	GG45 BSc/CIS	Ealing	65
Computing Science	BSc (Hons)	G401 BSc/CS	Ealing	65
Information Systems for Business	BSc (Hons)	G500 BSc/ISB	Ealing	66
Network and Mobile Computing	BSc (Hons)	G421 BSc/NMC	Ealing	66

# COMPUTER SYSTEMS MANAGEMENT

FdSc

**UCAS code:** Direct application  
**Duration:** Part-time (Saturdays) – Two years  
**Starting:** September and March  
**Location:** Ealing

## ENTRY CRITERIA

This course is designed for those already in employment, who do not necessarily have a higher education qualification. Applicants will be considered on evidence of their ability to benefit from the course and may not have to meet the formal requirements for admission. Ideally applicants will be working in the IT industry or in related jobs.

150 UCAS points or equivalent normally in a minimum of two subjects, plus GCSE English and Maths or equivalent.

For detailed information on alternative entry qualifications, please refer to page 169.

## COURSE OVERVIEW

The national and local labour market information tells us that the UK IT industry is facing a skills shortage. The national picture shows that the skills gaps are particularly pronounced in the areas of systems integration, systems testing, and systems installation and commissioning.

This course allows students to blend standard degree content with a range of vendor qualifications. It is designed to give students the knowledge and skills necessary to progress in the rapidly growing computer systems management environment. The course modules have been carefully selected to enable students to analyse user needs, and then propose, implement and manage IT solutions in the business context.

The course also places emphasis on the key transferable skills necessary to be effective in work, and draws on students' current or previous employment to enable them to apply their learning to specific workplace situations.

The commercial vendor qualification market changes rapidly so it is not possible to specify the exact qualifications that will be offered, however we will strive to offer a mix from the following:

- HP Certified Professional qualifications
- CISCO qualifications
- Microsoft qualifications.

Students will need to attend approximately alternate Saturdays for two years, together with four blocks of study (Thursday to Saturday) for the vendor qualification element each year.

## FURTHER STUDY

On completion of the course, students have the option to study for a further year to complete a relevant BSc (Hons) course.

# COMPUTING AND INFORMATION SYSTEMS

FdSc

**UCAS code:** Direct application  
**Duration:** Part-time (Saturdays) – Two years  
**Starting:** September and February  
**Location:** Ealing

## ENTRY CRITERIA

150 UCAS points or equivalent normally in a minimum of two subjects, plus GCSE English and Maths or equivalent.

For detailed information on alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

## COURSE OVERVIEW

This course emphasises the acquisition of skills in software development and programming. On completion, students will be able to apply computer-based solutions to a range of business, scientific and organisational requirements. They will also have the confidence and interpersonal skills needed to ensure successful IT implementation.

Their familiarity with business applications and software development, together with their knowledge of systems analysis, database theory and practice, will give students a range of skills desired by employers, both within the computing industry and in general IT functions in a variety of organisations.

## FURTHER STUDY

Upon completion of the course, students are eligible to apply to transfer to the final year of the BSc (Hons) Computing and Information Systems course.

## CAREER OPPORTUNITIES

On completion of the course, students will be in a position to apply for various appointments in computing, including:

- Systems Analyst
- Software Developer/Programmer
- Database Specialist
- User Support
- Usability Engineer.

# COMPUTING AND INFORMATION SYSTEMS

BSc (Hons)

**UCAS code:** GG45 BSc/CIS  
**Duration:** Full-time – Three years  
Part-time (days) – Three and a half years  
Part-time (Saturdays) – Three years  
**Starting:** September and February  
**Location:** Ealing

## ENTRY CRITERIA

200 UCAS points or equivalent normally in a minimum of two subjects, plus GCSE English and Maths or equivalent.

For detailed information on international equivalences and alternative entry qualifications, please refer to page 169.

## COURSE OVERVIEW

Computers are everywhere that we work, shop and play. In the world of work, computers manage the information that is vital to plan and develop a vision of the organisation for the future. This course covers the theory, practice and application of computing and information systems in relation to the changing environment of use, within a variety of businesses and also other organisations. Students will gain a sound understanding of and develop industry relevant skills in management information, e-commerce, databases and networking.

In their final year, students will select a specialist project within the field of computing and information systems and, under supervision, complete a substantial piece of independent research and development.

Whilst no specific prior knowledge of information systems is required, students should be comfortable working in both a technical and business oriented discipline. Some prior interest in computer applications would also be useful.

## CAREER OPPORTUNITIES

On completion of the course students will be in a position to apply for various appointments in computing, including:

- Systems Analyst
- Software Developer/Programmer
- Database Specialist
- User Support
- Usability Engineer.

# COMPUTING SCIENCE

BSc (Hons)

**UCAS code:** G401 BSc/CS  
**Duration:** Full-time – Three years  
**Starting:** September and February  
**Location:** Ealing

## ENTRY CRITERIA

200 UCAS points or equivalent normally in a minimum of two subjects, plus GCSE English and Maths or equivalent.

For detailed information on international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

## COURSE OVERVIEW

Although the range of jobs within the IT industry has diversified greatly in recent years, there remains a core knowledge base that is central to many specialist areas within the field. The underpinning discipline of computing science has itself evolved over the years, but remains a major route into the profession, particularly for those seeking a technical orientation.

This course provides students with a key set of skills in the theory, practice and efficient application of computers in relation to the changing environment of use. It will enable them to gain a sound understanding and develop industry relevant skills in a variety of different programming languages and approaches, together with skills in computer hardware, systems modelling, human-computer interaction and knowledge-based systems.

In their final year, students will select a specialist project within the field of computing science and, under supervision, complete a substantial piece of independent research and development.

Whilst no specific prior knowledge of computing is required, students should be comfortable working in a technical discipline. Some prior interest in computer programming would also be useful.

## CAREER OPPORTUNITIES

On completion of the course, students will be in a position to apply for various appointments in computing, including:

- Software/Systems Architect
- Systems/Network Engineer
- Programmer/Software Developer.

# INFORMATION SYSTEMS FOR BUSINESS

BSc (Hons)

**UCAS code:** G500 BSc/ISB

**Duration:** Full-time – Three years

**Starting:** September and February

**Location:** Ealing

## ENTRY CRITERIA

200 UCAS points or equivalent normally in a minimum of two subjects, plus GCSE English and Maths or equivalent.

For detailed information on international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

## COURSE OVERVIEW

To any business, high quality information is critical. Without information a business would find it impossible to plan and develop a vision for the future. Developing computer-based systems to manage this information is a vital business process, and it is this challenge that forms the basis of this course.

On this course, students will gain a solid understanding of the theory, practice and applications of information systems and how they work in an ever-changing way, within a variety of businesses and other organisations. They'll develop all the relevant skills in business, management information, e-commerce, databases and networking that the industry requires.

Whilst no specific prior knowledge of information systems is required, students should at least be comfortable working in both a technical and business oriented discipline. Some real interest in computer applications would also be useful.

## CAREER OPPORTUNITIES

On completion of the course, students will be in a position to apply for various appointments in computing, including:

- Analyst/Programmer
- User Support Specialist
- Database Designer
- IS Strategy.

# NETWORK AND MOBILE COMPUTING

BSc (Hons)

**UCAS code:** G421 BSc/NMC

**Duration:** Full-time – Three years

**Starting:** September

**Location:** Ealing

## ENTRY CRITERIA

200 UCAS points or equivalent normally in a minimum of two subjects, plus GCSE English and Maths or equivalent.

For detailed information on international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

## COURSE OVERVIEW

The internet and mobile technologies have become a revolutionary force in all our lives. They have redefined the way we communicate, work, shop, and play. Within organisations, network and mobile technologies are now a critical part of effective business operations, so now, more than ever before, network administrators and designers are essential to the success of almost all businesses.

On this course, students will gain a solid understanding of the principles and practice of designing, building and maintaining network and mobile computer systems, capable of supporting local, national and global organisations. They will also develop all the industry-relevant skills needed in software development, the internet, networking and security.

Students will also have the opportunity to gain the industry standard CISCO Certified Networking Associate (CCNA) status. CISCO certification is recognised as the gold standard in the networking industry, and this course enables students to build upon theory and obtain hands-on experience in how to solve real-life problems, embracing networking concepts ranging from internet routing protocols, to wireless and security issues.

Whilst no specific prior knowledge of computer networking is required, students should at least be comfortable working in a technical discipline. Some real interest in computer programming would also be useful.

## CAREER OPPORTUNITIES

On completion of the course, students will be in a position to apply for various appointments in computing, including:

- Network Engineer
- Mobile Applications Programmer
- Security Administrator.