Introduction

Computers are now an integral part of modern life with continuous improvements in hardware and software technologies, ever increasing areas of application and users from all walks of life. This has led to a demand for computer system specialists who are fully conversant with the needs of all participants and who are capable of creating, and controlling, the networking systems. The BSc (Hons) in Computer Systems Administration offers you the opportunity to become one of these specialists.

This course will allow you to explore every aspect of the system administration process from operating systems to wide and complicated networks of computers. With dedicated facilities and teaching resources, we believe this course will allow you a truly unique experience that will equip you for your career.

Programme Aims

The programme is intended to:
• deliver a flexible programme of study that reflects the requirements of the modern computing and systems administration industries, as well as areas of staff expertise and research;

• provide a supportive, structured learning environment in which students are encouraged to develop independent learning skills;

• develop subject knowledge and understanding, and provide training in discipline skills to enable graduates to pursue further programmes of study or to move directly into responsible careers in computing and systems administration or related practices;

• develop personally transferable skills to enable graduates to pursue further programmes of study or careers in non-cognate fields;

• promote educational opportunities for ethnic minorities, women, mature and alternatively qualified students, as well as school leavers and traditionally qualified students.

Programme Learning Outcomes

When you have completed the programme you will be able to demonstrate a highly developed range of knowledge-based and transferable skills. As such you will have achieved:

• Knowledge and Understanding in the fields of computation and computer programming, computer architecture and networks, databases, and systems administration.

• Discipline skills in computer architecture and system software, structured programming, systems administration using Linux and Microsoft operating systems, database design and SQL programming and the ability to address systems security issues, making you invaluable to any project team.

• Personal Transferable Skills in critical thinking; numerical techniques; independent learning and research; team working; IT and communication skills; creative and problem based resolution; life-long learning skills, and personal management.

Curriculum

The map of your studies is detailed below showing core(C) and optional (O) modules. Each year, or stage, of an Honours course comprises two semesters with 60 credits being studied in each semester. For 10 credit modules and 20 credit double modules (last character in module code is a ‘D’) all of the teaching and assessment is undertaken in the same semester. For 20 credit linked modules (last character in the module code is an ‘L’) and the 30 credit project there is teaching and assessment in both semesters.

Although the University does not recruit directly to Ordinary degrees this route is. Ordinary degrees comprise 100 credits in each Stage 1.
**Stage 1 [FHEQ Level 4]**

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Hons</th>
<th>Credits</th>
<th>Level</th>
<th>Study period</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM0113L</td>
<td>Developing Professional Skills</td>
<td>C</td>
<td>20</td>
<td>4</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0107L</td>
<td>Computer Architecture and Systems Software</td>
<td>C</td>
<td>20</td>
<td>4</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0111L</td>
<td>Formal Foundations</td>
<td>C</td>
<td>20</td>
<td>4</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0211M</td>
<td>Introduction to Web Technologies</td>
<td>C</td>
<td>10</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>CM0116D</td>
<td>Software Development (Part 1)</td>
<td>C</td>
<td>20</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>CM0202M</td>
<td>Foundations of Human Computer Interaction</td>
<td>C</td>
<td>10</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>CM0117D</td>
<td>Software Development (Part 2)</td>
<td>C</td>
<td>20</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

Students who have achieved at least 120 credit points at Level 4 may exit the programme and are eligible for the award of Certificate of Higher Education.

**Stage 2 [FHEQ Level 5]**

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Type</th>
<th>Credits</th>
<th>Level</th>
<th>Study period</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY0218L</td>
<td>Systems Administration 1</td>
<td>C</td>
<td>20</td>
<td>5</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CY0219L</td>
<td>Unix Programming 1&amp;2</td>
<td>C</td>
<td>20</td>
<td>5</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0311L</td>
<td>SQL: Programming and Administration</td>
<td>C</td>
<td>20</td>
<td>5</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0315L</td>
<td>Computer Communications and Networks</td>
<td>O</td>
<td>20</td>
<td>5</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0223L</td>
<td>Electronic Business</td>
<td>O</td>
<td>20</td>
<td>5</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0415L</td>
<td>Computer Architecture and Systems Software 2</td>
<td>O</td>
<td>20</td>
<td>5</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>CM0219M</td>
<td>Network Business</td>
<td>O</td>
<td>10</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>CY0212M</td>
<td>How to Run an SME</td>
<td>O</td>
<td>10</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

Students who have achieved at least 120 credit points at Level 5 may exit the programme and are eligible for the award of Diploma of Higher Education.

**Stage 3 [FHEQ Level 6]**

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Title</th>
<th>Type</th>
<th>Credits</th>
<th>Level</th>
<th>Study period</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM0374K</td>
<td>Final Year Project</td>
<td>C</td>
<td>40</td>
<td>6</td>
<td>1&amp;2</td>
</tr>
</tbody>
</table>
Please note that, while every effort will be made to accommodate your choices, it may not be possible to permit every possible combination of optional modules, due to timetabling constraints.

The curriculum may change, subject to the University's programme approval, monitoring and review procedures.

Study abroad and work placement opportunities

You have the option to undertake an industrial placement, or of studying or working abroad for a year between stages 2 and 3; this option is strongly encouraged. The School has an industrial training tutor who has contacts with a large number of outside organisations and who assists in helping you find a placement. The University’s International Office additionally provides a wide range of opportunities and support for students to gain international experience. Both options provide the opportunity to gain valuable experience, and are viewed favourably by prospective employers.

Teaching and Assessment Strategies

The course is designed to give you a wide experience of teaching, learning and assessment strategies. Concepts, principles and theories are generally explored in formal lectures, practised in associated tutorials and seminars, and demonstrated in laboratory classes. Practical skills are developed in laboratory sessions. The course is designed to allow you to develop and enhance your practical and inter-personal skills through working in small groups engaging in problem solving scenarios. Project work is included to allow you to demonstrate your ability to solve problems using the knowledge, understanding and skills you have gained during your course.

Each 10-credit module on the course requires you to commit an average 100 hours of study pro rata. Some of these hours will be formally timetabled - lectures, laboratories, seminars and tutorials – while others involve private study. The balance between these forms of study changes as you pass through the three years of the course. There are more "contact hours" (time spent with tutors) in the earlier stages of the course; by the final year you are expected to manage your own learning, under the general guidance of your tutors.
An optional placement year, normally taken between Stages Two and Three, will enable you to extend and apply your learning in an appropriate industrial/commercial context, and gain first-hand experience of how your skills might be applied in the workplace.

The Assessment methods you will encounter are varied and your progress will be reviewed using a mix of formal examinations, reports, laboratory portfolios, essays, oral presentations (either individual or team) and the final year dissertation. Your performance in each module will be assessed using a mix of these assessment systems to allow you to demonstrate the particular module learning outcomes.

**Assessment Regulations**

This Programme conforms to the standard University Regulations which are available at the following link:

http://www.bradford.ac.uk/aqpo/ordinances-and-regulations/

**Admission Requirements**

The University welcomes applications from all potential students regardless of their previous academic experience; offers are made following detailed consideration of each individual application. Most important in the decision to offer a place is our assessment of a candidate’s potential to benefit from their studies and of their ability to succeed on this particular programme. Entrance requirements for each programme will vary but consideration of your application will be based on a combination of your formal academic qualifications and other relevant experience.

If you have prior certificated learning or professional experience which may be equivalent to parts of this programme, the University has procedures to evaluate this learning in order to provide you with exemptions from specified modules contained within the curriculum. Please talk to us if you do not fit the standard pattern of entry qualifications.

The University of Bradford has always welcomed applications from disabled students, and these will be considered on the same academic grounds as are applied to all applicants. We are continually reviewing and developing our practices and policies to make the University more inclusive, but if you are disabled we may need to make some adjustments to make sure that you are not disadvantaged. We would advise you to contact the programme leader before you apply to discuss these.

A typical offer to someone seeking entry through the UCAS scheme would be the attainment of a total of 240 UCAS tariff points. Applications are welcome from candidates with non-standard qualifications or who, lacking academic qualifications, have significant relevant experience.

Applicants whose first language is not English will also be expected to possess an English Language qualification approved by the University, such as IELTS at 6.0 or TOEFL at 550.

Applications are welcome from mature students (those over 21 years of age on entry) and candidates with non-standard qualifications or who, lacking academic qualifications, have significant relevant experience. On completion of a UCAS form you will be invited to the School for an Open Day when you will have the opportunity...
to meet staff, view the facilities and discuss “the Bradford experience” with current
students.

**Learning Resources**

The JB Priestley Library on the city campus and our specialist library in the School of
Management provide a wide range of printed and electronic resources to support
your studies. We offer quiet study space if you want to work on your own, and group
study areas for the times when you need to discuss work with fellow students.
Subject librarians for each School provide training sessions and individual guidance
in finding the information you need for your assignment, and will help you organise
your references properly.

Student PC clusters can be found in both our libraries and elsewhere on the campus.
Many of these are open 24/7. You can also use the University's wireless network to
access the internet from your own laptop. Most of our journals are available online
(both on and off campus), and you can also access your University email account,
personal information and programme-related materials this way.

Staff are on hand during the daytime to help you if you get stuck, and there is a 24/7
IT helpline available.

**Student Support and Guidance**

**Programme Team**

Support for you personally and in your programme of study, will be provided both by
the University and the Programme Team. You will be allocated a personal tutor who
is someone with whom you will be able to talk about any academic or personal
concerns. The School will ensure that there is someone available with whom you
feel comfortable to help and support you. You will be provided with a comprehensive
series of handbooks that you can consult on a range of learning issues and your
programme tutors will be available to consult on subject specific queries.

**The Hub, Student Support Centre**

The Hub, Student Support Centre provides a central reception where students can
receive information, advice and guidance on a whole range of topics about their life
at University. The Hub is located in the Richmond Building adjacent to the Atrium.

The teams located within The Hub:

- Accommodation
- Admissions
  - Education Liaison
  - Enquiries
- Student Administration and Support
  - Bursaries and Financial Support
  - Finance and Credit Control Group
  - Payzone
  - Records and Tuition Fees
- International Office
- Customer Service Team

[www.brad.ac.uk/hub](http://www.brad.ac.uk/hub)
+44 1274 232233
Students' Union

We value the feedback provided by students and collaborate with the Students' Union, through a system of Student representatives and formal staff student liaison committees, so that any issues you wish to raise are addressed rapidly.

The Students Union provide professional academic representation and advice. The Students’ Union and the University of Bradford work in partnership to provide confidential counselling and welfare services where you can get help with any aspect of your personal or academic life. Student Financial and Information Services (based in the Hub) will provide you with information about a diverse range of issues such as council tax, personal safety and tourist information. International Students can access a range of additional advice and support services through the Student's Union.

Employability and Career Development

The University is committed to helping students develop and enhance their employability profile and capabilities through learning opportunities embedded within the curriculum.

Furthermore, the University is committed to supporting students to develop their commitment towards a career pathway(s) and to implementing a career plan. Professional career guidance and development support is available throughout your time as a student and as a graduate from Career Development Services. The support available from Career Development Services includes a wide range of information resources, one to one appointments, a weekly workshop programme, a mentoring programme, graduate recruitment and careers fairs, plus information and help to you find part time work, summer work placements, graduate internship programmes and graduate entry vacancies. In addition, some students as part of their programme of study may have the opportunity to complete a Career & Personal Development accredited module delivered by the Career Development Service. All students are encouraged to access Career Development Services at an early stage during their studies and to use the extensive resources available on their web site www.careers.brad.ac.uk.

Career Development Services annually undertakes a survey of all graduates to find out their destination six months after graduation. The survey gathers data on the employment and further study routes graduates have entered and a range of other information including job roles, name and location of employers, salary details etc. The survey findings for each programme of study are presented on the programme information pages on the University website and via Career Development Services’ website www.careers.brad.ac.uk.

Learner Development Unit for Academic Skills Advice

For undergraduate students who are looking to improve their marks during their time at University, study skills and maths advice is available to all regardless of degree discipline or level of study. Students can access a programme of interactive workshops and clinics which is delivered throughout the year. This is in addition to our extremely popular face-to-face guidance from our advisers, who also offer a wide range of online and paper based materials for self-study.
Disability
Disabled students will find a supportive environment at Bradford where we are committed to ensuring that all aspects of student life are accessible to everyone. The Disability Service can help by providing support, advice and equipment to help you get the most out of your time at Bradford. It is a place where you can discuss any concerns you may have about adjustments that you may need, whether these relate to study, personal care or other issues. For more information contact the Disability Service by phoning: 01274 233739 or via email: disabilities@bradford.ac.uk

University policies and initiatives

Learning and Teaching
Our University approach to learning, teaching and assessment is encapsulated by an integrated set of themes and principles within our Curriculum Framework. All of our degree programmes have been designed to provide you with an inclusive and engaging learning environment which gives you the opportunity to thrive and develop in your area of study. Our research-informed programmes have a particular focus on developing your employability. We also place a strong emphasis on collaborative, real-world and enquiry-based learning, supported by appropriate learning technologies. Our assessment is designed not just to measure your achievement, but also to shape and guide your learning through preparing you for the increasing level of challenge as you progress through your degree. Together, these lead to you developing a distinctive set of graduate attributes which will prepare you for life beyond university.

Ecoversity:
Ecoversity is a strategic project of the University which aims to embed the principles of sustainable development into our decision-making, learning and teaching, research activities campus operations and lives of our staff and students. We do not claim to be a beacon for sustainable development but we aspire to become a leading University in this area. The facilities we create for teaching and learning, including teaching spaces, laboratories, IT labs and social spaces, will increasingly reflect our commitments to sustainable development. Staff and student participation in this initiative is crucial to its success and its inclusion in the programme specification is a clear signal that it is at the forefront of our thinking in programme development, delivery, monitoring and review. For more details see www.bradford.ac.uk/ecoversity

Further Information:
For further information, please check the University prospectus or contact Admissions.

The Admissions Office The Recruitment and Marketing Office
The contents of this programme specification may change, subject to the University's regulations and programme approval, enhancement and review procedures.