

# BSc (Hons) Computing

## COM001-F-UBM-SX-01 Full-time

### Awarding Institution

Teaching Institution UoB Manchester

HECOS Code

Language Of Study English

Notes:

### Professional Accreditation

None Associated with this programme

### Programme Awards

Title	Type	Level	Description
Honours Degree (BSc (Hons))	Final Award	Level 6	Computing
Diploma of Higher Education (DipHE)	Exit or Fallback Award	Level 5	Computing
Certificate of Higher Education (CertHE)	Exit or Fallback Award	Level 4	Computing

### Benchmark Statements

The following benchmark statements apply to this programme:

- QAA Benchmark Statement - Computing - March 2022

### Internal and External Reference Points

1. Office for Students Sector Recognised Standards
2. UK Quality Code for Higher Education
3. The University of Bolton awards framework

### Other Points of Reference

No other references apply to this Programme.

### General Entry Requirements

You should have a minimum of two GCE A2-level passes (or equivalent), including any subject; and five GCSEs at grade C or above (or equivalent), including any subject. You may be required to attend an interview and/or provide a portfolio of work. If English is not your first language you will need to complete a Secure English Language Test at IELTS 6.0 or equivalent.

### Additional Criteria

- If you have non-traditional entry qualifications and relevant experience, or a suitable portfolio of work that we consider a reasonable substitute for the qualifications we typically accept for this course, then we will be happy to consider your application.
- You may be required to attend an interview and/or provide a portfolio of work

### Additional Admission Matters

There are no additional Admission Matters associated with this Programme.

### Aims of the Programme

The principal aims of the programme are to:

- Communicate a contemporary curriculum that allows students to develop their skills as well as their theoretical and empirical understanding of core computing concepts, principles, and techniques, and apply these to 'real world' examples.
- Enable students to appreciate the significance of the social, political, ethical, environmental, and global contexts in which computing operates, so as also to develop awareness and appreciation of different cultural values and perspectives.
- Facilitate opportunities to develop employability skills throughout the programme in transferable areas such as communication, critical thinking, workload and time management and independent learning. This will provide students with a range of graduate skills and attributes to enhance employability and career prospects.
- Foster the transferable skills necessary for personal development as lifelong independent learners, with the ability to respond positively to change during their academic studies/careers and continue to develop professionally.

- Provide students with breadth and depth of knowledge, understanding and skills as set out in the QAA benchmark statement for Computing.
- Use a range of evidence-based approaches, influenced by research, industry and market requirements, to ensure students receive a computing education underpinned by theoretical and empirical frameworks and applications to wider industry contexts.

## Distinctive Features of the Programme

- You will experience both pastoral and tutor support throughout your learning from your Personal Academic Tutor and our Academic Support Team
- Two days a week lecture and seminar block timetable
- An extensive Employability package that will help to develop your professional and transferable skills and support your career development

## Learning Outcomes

### Knowledge & Understanding

On completion of the programme successful students will be able to demonstrate systematic knowledge and understanding of:

- The computing programme's subject areas and be able to exercise critical judgement in the use of that knowledge.
- Computing knowledge and skills equivalent to competency expected by employers for graduate level entry jobs.
- Computer-based system design, build, deployment, management, and maintenance, addressing criticality, safety and security where appropriate.
- Engineering principles for computer-based systems based on appropriate scientific, technological, risk and human management insights taught on the programme.
- Complex computing challenges and situations with credible and professional evaluations of the solutions provided.
- Research methods appropriate to computing areas of study factoring in strengths, limitations, and ethical issues.

### Cognitive, Intellectual or Thinking Skills

On completion of the programme successful students will be able to demonstrate the ability to:

- Design, construct and document computer-based systems and applications.
- Evaluate quality attributes and possible trade-offs within the context of the given problem.
- Apply principles, methods, tools and techniques of computer-based systems design to develop solutions that meet business needs.
- Apply research-based principles and practices within the computing discipline to address system complexity, while justifying and reflecting on the methods used.

### Practical, Professional or Subject-specific Skills

On completion of the programme successful students will be able to demonstrate the ability to:

- Apply detailed judgement, critical thinking and problem-solving skills to solve both well-specified and loosely defined problems with appropriate computing solutions.
- Interpret and apply computing theories, concepts and evidence-based practice to computer-based systems and their broader contexts of operation.
- Critically analyse and apply concepts, principles and practices of computing in different scenarios, showing effective judgement and adaptability in the selection and use of tools and techniques.
- Critically assess contemporary issues in computing to engage in debates about issues on local, national, and global scales.

### Transferable, Key or Personal Skills

On completion of the programme successful students will be able to demonstrate the ability to:

- Practice and effect principled solutions within a professional, legal and ethical framework to address core considerations including data management and use, security, equality, diversity and inclusion and sustainability in the work undertaken.
- Use critical reflection to assess individual and team-based strengths and weaknesses and improve performance, responding to feedback and building resilience while engaging in personal and professional change.
- Develop networks and professional relationships with peers by working collaboratively within assessments to enhance communication and interactive skills.
- Recognise and respond in appropriate ways to opportunities for innovation.
- Clearly communicate complex ideas either verbally and/or in writing, and construct coherent arguments using language appropriate to your programme of study.

## Programme Structure

This Bachelor's degree programme comprises of 360 credits in total, with 120 credits awarded at each Level. All modules are core and there are no options. Fall back awards are given to those students who do not gain the full 360 credits required for the BSc (Hons).

## Validated Modules

Title	Module Code	COE <sup>1</sup>
Academic and Professional Skills	BAM4014	C
Computing Principles	COM4005	C
Computer Programming	COM4006	C
Database Design and Implementation	COM4007	C

Software Development	COM5002	C
Information Systems Security	COM5003	C
Networks and Communications	COM5004	C
Business Intelligence	COM5005	C
Sustainability and IT Project Management	COM6001	C
Digital Technologies	COM6005	C
Enterprise Systems	COM6003	C
Major Project (Computing)	COM6004	C

<sup>1</sup>Core, Optional, Elective

## Learning & Teaching Strategies

The programme uses a face-to-face learning approach. The learning and teaching methods typically used by lecturers include, lectures, seminars, guest speakers, workshops, tutorials, and examinations. A significant amount of personal study time is expected to be undertaken by the student comprising, for example, background reading, assignment work, preparation for seminars and revision for examinations. This will further be enhanced but social learning community including a peer support programme and enhanced personal tutoring. This programme adopts a blended style of learning and teaching including online delivery and engagement where appropriate.

## Learning Activities (KIS entry)

Course Year	Level 3	HE4	HE5	HE6	HE7
Scheduled learning and teaching activities	n/a	24%	24%	24%	n/a
Guided independent study	n/a	76%	76%	76%	n/a
Placement/study abroad	n/a	n/a	n/a	n/a	n/a

## Assessment Strategy

Assessment tasks are linked to the learning outcomes of each module and are completed before the end of the module. Module assessments typically involve written coursework, oral presentations, time constrained activities, practical and portfolios. Formative assessments, which does not contribute to the final mark, is given to help the student improve their work in future. Feedback may be given to the student verbally/written/online. Feedback for summative assessment, which does contribute towards the result, is normally given in writing to the student to receive more detailed verbal explanation.

## Assessment Methods (KIS entry)

Course Year	Level 3	HE4	HE5	HE6	HE7
Written exams	n/a	25%	48%	n/a	n/a
Coursework	n/a	52%	52%	60%	n/a
Practical Exams	n/a	23%	n/a	40%	n/a

## Assessment regulations

Assessment Regulations for Undergraduate Programmes apply to this programme.

## Grade Bands & Classifications

Undergraduate Honours Degree

Regulations can be found at: <http://www.bolton.ac.uk/studentinformation-policyzone/Home.aspx>

## Role of External Examiners

External examiners are appointed for all programmes of study. They oversee the assessment process and their duties include: approving assessment tasks, reviewing assessment marks, attending assessment boards and reporting to the University on the assessment process.

## Support for Student Learning

- Each student has a Personal Tutor who is responsible for support and guidance
- Feedback is available on formative and summative assessments
- The opportunity to develop skills for employment
- The online Student Information – Policy Zone provides all regulatory and policy information in one place
- A subject specialist link tutor supports the programme
- Induction/Welcome Week introduces the student to the University, partner and their programme
- UoB online library services are a very good source of advice and support with excellent study skills materials available
- Partner centre has study resources
- Programme Handbooks and Modules guides provide information about the programme and university/partner regulations

- Academic Partnership Manager supports the partner centre
- The partner centre provides administrative support, information and advice
- Student representative training is available online from the Student Union

### **Methods of Evaluating & Enhancing the Quality of Learning Opportunities**

- Student Staff Liaison Committees
- Module evaluations by students
- Programme and University Student Surveys
- Annual quality monitoring and action planning through Programme Plans including data analysis, Subject Quality Enhancement Plans, School Quality Enhancement Plans, University Quality Enhancement Plan
- Peer review/observation of teaching
- Professional development programme for staff
- External Examiner reports

### **Sources of Information**

- Student Portal <http://www.bolton.ac.uk/Students/Home.aspx>
- Students Union <https://www.boltonsu.com/>
- External Examiner Report <https://www.bolton.ac.uk/Quality/EEE/ExternalExaminersReports/>
- Careers <http://www.bolton.ac.uk/careers>
- Student Information - Policy Zone <http://www.bolton.ac.uk/studentinformation-policyzone/Home.aspx>