UNIVERSITY OF BRADFORD
Faculty of Engineering and Informatics
School of Electrical Engineering and Computer Science
Programme: BSc (Hons) Business Computing

<table>
<thead>
<tr>
<th>Awarding and teaching institution:</th>
<th>University of Bradford</th>
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<tbody>
<tr>
<td></td>
<td>MDIS Singapore</td>
</tr>
<tr>
<td>Final and interim award:</td>
<td>BSc (Honours) [Framework for Higher Education Qualifications level 6]</td>
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<tr>
<td></td>
<td>Diploma of Higher Education [Framework For Higher Education Qualifications level 5]</td>
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<td>Programme title:</td>
<td>Business Computing</td>
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<td>Programme accredited by:</td>
<td>Franchised to MDIS</td>
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<tr>
<td>Duration:</td>
<td>2 years</td>
</tr>
<tr>
<td>UCAS code:</td>
<td>Not applicable</td>
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<tr>
<td>Subject benchmark statement(s):</td>
<td>Computing, Management</td>
</tr>
<tr>
<td>Date produced:</td>
<td>based on BSc Business Computing, Bradford, 3 December 2006</td>
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<tr>
<td>Last updated:</td>
<td>July 2014</td>
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Introduction

The BSc Business Computing course accredited by University of Bradford is delivered by the School of Technology and E-Learning (STEL) at the MDIS campus in Singapore. The School works closely with employers and Universities to ensure its programmes are relevant, rigorous and of high quality. The curricula are regularly reviewed and kept up to date in line with the current development in the IT and Business industry.

STEL is one of the student chapters of Singapore Computer Society (SCS). SCS student chapters provide a channel for students to network with the IT professionals and help them relate theory to business practice in the transition from study to employment.

Programme Aims

The programme is intended to increase the use of computers in business management and has created a demand for computing specialists with management skills – the hybrid manager. Management is concerned with the study of organizations, their management and the changing external environment in which
they operate. The computing skills are essentially those of programming, software development and information technology so these aspects of the computing curriculum are combined with appropriate modules from the School of Management to meet the requirements of the hybrid manager. The course contains two thirds computing to one third management. Employment prospects for graduates of Business Computing are excellent.

The off-site programme in Business Computing is offered as a three year part-time course that contains essentially the same components as the on-campus course. The aims of the course are to equip you with the knowledge and skills required by the modern commercial manager and to provide a platform for obtaining further qualifications in computing and/or management. The aims will be achieved by:

- Providing you with a core of fundamental computing modules throughout the course so that you will be able to apply the computing knowledge to your chosen area of business management.
- Providing a wide range of management modules throughout the course.
- Providing the support in the form of lectures, labs and tutorials that will enable you to develop your personal portfolio of skills. Management Development Institute of Singapore and the University of Bradford School of Electrical Engineering and Computer Science (EECS) are committed to providing a very high standard of up-to-date computing facilities to support the practical hardware and programming requirements of the courses.
- Developing discipline skills and personal transferable skills so that on graduation you may move directly into responsible management positions in industry or commerce, or may pursue further programmes of study.
- Promoting educational opportunities for ethnic minorities, women, mature and alternatively qualified students, as well as for school-leavers and traditionally qualified students.

Programme Learning Outcomes

When you have completed the programme you will be able to understand the concept of the business computing and as you know the Computing and Management are constantly changing disciplines as technologies evolve and new programming languages emerge. However the underlying theory and principles do not change rapidly. You will study these fundamentals and learn how to apply them to the analysis of problems and how to plan, implement and evaluate the solutions. In particular you will be able to apply your computing knowledge to the study and solution of problems in a business environment. In order to achieve the learning outcomes you will develop the following:

- **Knowledge and understanding**: a systematic understanding of the fundamental concepts of programming and software development; detailed knowledge of information and communication technologies, network business and management subjects including economics, accounting, marketing, human resource management and business psychology; a firm grasp of how to develop computer programs using object oriented programming languages.
• **Discipline Specific Skills including:** how to analyse problems and develop solutions using leading edge ideas and techniques; ability to manage and/or contribute to a team approach to software engineering projects; effective application of business skills in areas such as finance, marketing, psychology and management; ability to describe and comment on aspects of current research or management practices.

• **Personal and Transferable Skills:** exercise of initiative in information management, interpretation and presentation; ability to make decisions in a variety of contexts; application of IT and communications skills to management problems; report writing and presentation skills; creative and systematic problem solving; teamwork and leadership; project management; and personal management.

**Knowledge and Understanding:**

LO1. a systematic understanding of the fundamental concepts and theories of computer science including detailed knowledge of hardware, computer architecture, information and communication technologies;

LO2. a firm grasp of the mathematical foundations of computing and how they underpin the formal specification and design of commercial applications;

LO3. specific knowledge of networks and computer communications;

LO4. ability to comment on aspects of current research in the discipline.

**Discipline Specific Skills:**

LO5. how to analyse problems and develop solutions using leading edge ideas and techniques;

LO6. how to develop computer programs using object oriented programming languages;

LO7. how to choose which programming languages to use for specific applications;

LO8. ability to manage and/or contribute to a team approach to software engineering projects;

LO9. an ability to read and make use of research articles in journals and research literature;

LO10. the ability to complete a major individual software engineering project;

LO11. competence in the use of major software application packages.

**Personal and Transferable Skills:**

LO12. exercise of initiative in information management, interpretation and presentation;

LO13. ability to make decisions in a variety of contexts;

LO14. application of IT and communications skills to management problems;

LO15. report writing and presentation skills;

LO16. creative and systematic problem solving;

LO17. teamwork and leadership;

LO18. project management; and personal management.
Curriculum

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>
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<tbody>
<tr>
<td>CM0304L</td>
<td>Software Engineering with Group Project</td>
<td>C</td>
<td>20</td>
<td>2</td>
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<tr>
<td>CM0305L</td>
<td>Information Systems Analysis and Design</td>
<td>C</td>
<td>20</td>
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<tr>
<td>CM0312M</td>
<td>User Interface Development</td>
<td>C</td>
<td>10</td>
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<tr>
<td>CM0307M</td>
<td>Database Systems</td>
<td>C</td>
<td>10</td>
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<tr>
<td>CM0223L</td>
<td>Electronic Business</td>
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<td>MAN0901M</td>
<td>Resource Planning</td>
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<td>10</td>
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<td>MAN0713M</td>
<td>Marketing Management and Strategy</td>
<td>C</td>
<td>10</td>
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<td>MAN0405M</td>
<td>Financial Management</td>
<td>C</td>
<td>10</td>
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<td>MAN0902M</td>
<td>Management of Service Operations</td>
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Stage 3 [FHEQ Level 6]

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<th>Module Code</th>
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<th>Level</th>
<th>Study period</th>
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<tr>
<td>CM0347K</td>
<td>Final Year Project</td>
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<td>CM0504D</td>
<td>Information Engineering</td>
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<td>CM0606D</td>
<td>Decision Support Systems</td>
<td>C</td>
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<tr>
<td>MAN0327L</td>
<td>Human Resource Management; Resourcing and Development</td>
<td>C</td>
<td>20</td>
<td>3</td>
<td>1</td>
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<tr>
<td>MAN0205M</td>
<td>Global Business Environment</td>
<td>C</td>
<td>10</td>
<td>3</td>
<td>2</td>
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<tr>
<td>MAN0204M</td>
<td>International Business Strategy</td>
<td>C</td>
<td>10</td>
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</table>

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

Teaching and Assessment Strategies

You will experience a wide range of teaching and learning environments. Concepts, principles and theories are generally explored in formal lectures, practiced in associated tutorials and seminars, and demonstrated in laboratory classes. Practical skills are developed in laboratory sessions. Professional and personal skills are developed through the Developing Professional Skills module which involves communications skills, library skills, group work and presentations. The Software Engineering Group Project develops an appreciation of how to manage group dynamics in whilst working on a substantial software engineering exercise. Honours students undertake a major individual project in their final year, drawing together the knowledge and experience gained throughout the course. The project provides the opportunity for you to demonstrate your ability to solve problems using current ideas and techniques that are at the forefront of the computing and management disciplines. (Students who achieve an Ordinary degree may be given the opportunity
to ‘top-up’ to a classified Honours degree at a later stage at which time they will undertake the individual project.)

You are required to commit 100 hours of time for each 10-credit module and, similarly, 200 hours of time for each 20-credit module. The weighting of how this time is managed varies. Some modules will involve many formal contact hours (time spent with the tutor), while others will require more independent study (self-managed under the guidance of the tutor), and the balance between these forms of study changes as you pass through the three years of the course.

Methods of assessment also vary, and your progress will be assessed using a mix of formal examinations, presentations and seminar papers, reports, laboratory tests, essays, coursework assignments, and projects. Each assessment has been carefully considered so as to allow you to demonstrate the learning outcomes required by the module.

Assessment Regulations

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

http://www.bradford.ac.uk/academic-quality-unit/ordinances-and-regulations-for-taught-courses/

Admission Requirements

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 course. Entrance requirements will vary but are set after consideration of each applicant’s academic background and achievements and all other relevant experience. A typical offer would be a diploma in Computing or IT from a Singapore Institution, plus O-level passes at grade 6 or higher in English and Mathematics. Alternatively 3 a-levels at grade C or equivalent would be acceptable. Applications are welcomed from candidates with non-standard qualifications or who, lacking academic qualifications, have significant relevant experience.

Learning Resources

The course is supported by laboratories with up-to-date hardware and software with regular update and replacement cycles.

Student Support and Guidance

This is provided both at MDIS and at the University. The MDIS ‘Student Services Unit’ provides ongoing support for students on the full range of student issues.

Members of MDIS teaching staff are available to support and help with problems you may encounter. In addition, the module coordinators at the Bradford campus may be
contacted by email for help with problems that cannot be solved by MDIS staff, particularly useful for final year students before and after the residency at Bradford.

MDIS provides good library facilities at their library, the Resource Hub, and provide recreational facilities the Energy Hub, at their headquarters site. MDIS has a bookshop on campus, which provides students with access to books at low cost.

Support for registered students is provided 24/7 via the MDIS website at http://www.mdis.edu.sg/students/index.php, which has numerous links to useful information, including a link to the University of Bradford internal website and to the university’s virtual learning environment, Blackboard. In addition to module resources available on Blackboard, the School of Electrical Engineering and Computer Science intranet gives access to module resources at http://www.ei.brad.ac.uk/eecs/programmes/ (username and password are required).

The MDIS Student Care Unit aims to provide a caring environment which is conducive to learning, and offers a range of services such as: orientation programmes; social activities (bbqs, educational visits, overseas trips etc); student feedback and complaints; class visits; and counseling support.

**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 Academic Skills 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 University of Bradford
Richmond Road
Bradford, BD7 1DP
UK

+44 (0)1274 233054
http://www.brad.ac.uk/courses/

The Admissions Office
School of Electrical Engineering and Computer Science
The University of Bradford
Horton D Building
Richmond Road
Bradford, BD7 1DP
UK

+44 (0)1274 234286
http://www.bradford.ac.uk/ei/electrical-engineering-and-computer-science/

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