

BSc in Quantity Surveying

UCAS Code: K240

For students entering Part 1 in 2009

Awarding Institution:	The University of Reading.
Teaching Institution:	The University of Reading.
Relevant QAA benchmarking groups:	Construction, Property and Surveying.
Faculty of Science	
Programme length:	3 years.
Date of specification:	Nov 2008.
Programme Director:	Mr Keith Hutchinson.
Board of Studies:	Faculty of Science and Life Sciences.
Accreditation:	Chartered Institute of Building, Royal Institution of Chartered Surveyors.

Summary of programme aims and learning outcomes

The aim of the four undergraduate programmes in the School of Construction Management and Engineering is to provide an undergraduate programme that is designed for those who will become leaders and senior managers in the construction and property industries and in their related professions. The programme in Quantity Surveying is aimed particularly at those who will become consultants in construction cost management or financial managers of construction organisations.

It achieves this aim by the means of learning outcomes which will provide to students a broad education in the academic disciplines related to building design and construction, the management of property, built facility procurement and construction operations. In addition, it will provide a knowledge and understanding of the latest, basic techniques and skills related to construction cost and financial management.

Transferable skills

The University's Strategy for Teaching and Learning has identified a number of generic transferable skills which all students are expected to develop by the end of their degree programme. In following this programme, students will develop their skills relating to career management, communication (written, oral and graphical), information handling, numeracy, problem-solving, team working and information technology.

As part of the programme, students will gain experience and show competence in the following transferable skills: IT (word processing, spreadsheets, computer-aided design and planning software), report writing, oral and graphical presentation, team working, problem-solving and use of library resources.

Programme Content

The Degree is divided into three parts. The first part of the programme covers the fundamental principles of economics, law and management and the scientific and technical principles of building design and construction. The second part builds on these modules, with greater emphasis, in the economics, law and management modules, on their application to the construction and property industries. In the third part, students take those modules which relate directly to the vocational specialism of

the programme, one of which is a project module. In addition, at part three, the student takes elective modules, which are related to the particular expertise and research activities of the School. A dissertation is prepared by students at part 3.

Part 1 (three terms)

<i>Compulsory modules</i>		<i>Credits</i>	<i>Level</i>
CE1CIS	Built Facility and Construction Industry Studies.	20	1
CE1CIC	Information and Communication	10	1
CE1CES	Empirical Studies	10	1
CE1CAD	Computer Aided Design	10	1
EC103	Economics for Construction and Engineering	10	1
LW1A05	General Introduction to Law	10	1
CE1CM1	Principles of Management	10	1
CE1CCS	Construction Science	20	1
CE1CCT	Construction Technology	20	1

Part 2 (three terms)

<i>Compulsory modules</i>		<i>Credits</i>	<i>Level</i>
CE2CM2	Management in the Built Environment	10	2
CE2CRS	Research Skills & Statistics	10	2
CE2CCE	Construction Economics	10	2
CE2CCL	Construction Law & Management	20	2
CECPL	Planning Law	10	2
CE2CBP	Building Pathology	10	2
CE2CES	Building Construction & Environmental Systems	10	2
CE2CEC	Entrepreneurship in Construction & Property	10	2
CE2CPR	Projects	30	2

Part 3 (three terms)

<i>Compulsory Modules (80 credits):</i>		<i>Credits</i>	<i>Level</i>
CE3CDS	Dissertation	50	3
CE3CQC	Quantification & Costing	10	3
CE3CPQ	Project QC	20	3

Plus Optional Units amounting to 40 credits

Optional modules

The optional modules available to students from year to year may vary, but are likely to include:

CE3CDR	Alternative Dispute Resolution	10	3
CE3CBM	Business Organisation & Management	10	3
CE3CDT	Digital Technology in Construction	10	3
CE3CFM	Facilities Management	10	3
CE3CHR	Human Resource Management	10	3
CE3CIE	Inclusive Environments	10	3
CE3CIT	Information Technology	10	3
CE3CIB	Intelligent Buildings	10	3
CE3CIC	International Construction	10	3
Various	Language Programme	20	3
CE3CS2	Sustainability 2	10	3

Progression Requirements

In order to progress from Part 1 to Part 2 and from Part 2 to Part 3, a student shall normally be required to:

- Achieve an overall average of 40% in 120 credits; and
- Achieve not less than 40% in modules taken in the part except that marks of less than 40% but not less than 30% in a total of 20 credits may be condoned.

Summary of teaching and assessment

Teaching. Students are provided with a variety of formal teaching, which includes lectures, tutorials, supervised project work, (individually and in groups), seminars and presentations. Module material is provided to students through Blackboard, which is also used in some modules to generate discussion.

Learning. Students are required to manage their own learning. The importance for personal and academic development of individual study, research and analysis is stressed to and facilitated for all students from the beginning of the programme.

Assessment. A wide variety of assessment methods is used throughout the programme, including unseen written examinations and assignments. The assignments may consist of essays or reports or practical projects, (individually or in groups), or oral and pin board presentations. In Part 3, students undertake a dissertation and a practical vocational project.

Degree award. The final degree award is determined by the aggregate mark of Part 2 and Part 3 module marks. Part 2 contributes one third and Part 3 two thirds to this aggregate mark. For progression requirements see above.

Admission requirements

Entrants to this programme are normally required to have obtained the following or their equivalent:

Grade C or better in English and Mathematics at GCSE

And

UCAS tariff: 300 points from 3 A-levels or 320 points from 3 A-levels and 1 AS-level.
No subjects are required.

AS: 2 AS grades are accepted as 1 A level

Or

BTEC ONC and OND with 2 distinctions and 4 merits at Level III

HNC and HND with 1 distinction and 4 merits at Levels IV and V

Applications are welcome from international applicants, mature students and from those coming from other educational routes.

Second Year Entry is considered for those applicants with higher qualifications than those required for Year 1 entry. Applicants with BTEC HND with 2 distinctions and 4 merits will be considered for advanced entry.

Admissions Tutor: Mr. Stephen Mika

Support for students and their learning

University support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers and the University Library, which across its three sites holds over a million volumes, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@IL) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme.

Student guidance and welfare support is provided by Personal Tutors, School Senior Tutors, the Students' Union, the Medical Practice and the Student Services Centre. The Student Services Centre is housed in the Carrington Building and includes the Careers Advisory Service, the Disability Advisory Service, Accommodation Advisory Team, Student Financial Support, Counselling and Study Advisors. Student Services has a Helpdesk available for enquiries made in person or online (www.risisweb.reading.ac.uk), or by calling the central enquiry number on (0118) 378 5555. Students can get key information and guidance from the team of Helpdesk Advisers, or make an appointment with a specialist adviser; Student Services also offer drop-in sessions on everything from accommodation to finance. The Carrington Building is open between 8:30 and 17:30 Monday to Thursday (17:00 Friday and during vacation periods). Further information can be found in the Student Diary (given to students at enrolment) or on the Student website (www.reading.ac.uk/student).

The School's Resources Room contains a variety of information sources relevant to the property and construction industries. It has a wide ranging reference collection of textbooks, journals, videos and information from companies in the property and construction industries. The School has its own IT Suite which contains software relevant to construction and surveying including AutoCAD for computer-aided design.

Career prospects

Graduates from undergraduate programmes in the School have been regularly employed by the largest and most prestigious firms of constructors, project management consultants, surveyors and property managers including: Davis Langdon, E.C.Harris, Gardiner & Theobald, Gleeds, Turner and Townsend, Citex, Ridge and Partners, Bovis, Carrillion, Keir, Costain, Taylor Woodrow, Wates, Schal, Mace, Jones Laing LaSalle, Weatherall, Smith and Green, Chestertons, Donaldsons Drivers Jonas and King Sturge.

Graduates from the Quantity Surveying programme most frequently enter employment with cost management consultants or constructors, including: Davis Langdon, E.C.Harris, Gardiner & Theobald, Gleeds, Turner & Townsend Citex, Ridge & Partners, Bovis, Carrillion, Keir, Costain, Taylor Woodrow and Wates.

These companies are willing to offer sponsorship in terms of work in the summer vacations or for year-out placements, for which students are permitted to suspend their studies.

Opportunities to study abroad

There is no formal requirement for study abroad, but with the agreement and approval of the Programme Director, a student may be permitted to undertake a formal or negotiated period of study abroad, which, with the approval of the Examination Board, can replace a section of the formal programme module content.

Educational aims of the programme

The general aim of all programmes in the School is to give a broad education in the academic disciplines related to building design and construction, the management of property, built facility procurement and construction operations.

The Construction Management programme will, in addition to this general School aim, give to students a potential for the acquisition in practice of an ability to manage the cost and finance of development projects, on behalf of a developer, and manage the financial administration of construction operations.

To achieve the general aim of all Programmes in the School the student will be provided with:

- A knowledge and understanding of the principles of design, construction and maintenance of buildings and built facilities and an understanding of the principles of science that underpin these processes.
- A knowledge and understanding of the basic principles of management and their application to the development process, (design and construction).
- A knowledge and understanding of the economics, finance and accounting processes of property development, construction procurement and construction operations.
- A knowledge and understanding of the principles of law that underpin relations in the construction industry and development process and how these are applied in development and construction situations.
- The development of IT, drawing, written and oral skills in the communication of design, technical and analytical information.

To achieve the specific aim of the Construction Management Programme the student will be provided with:

- An ability to develop the expertise and the skill to undertake the financial appraisal and feasibility of a development project.
- An ability to develop the expertise and the skill to quantify and cost construction operations.

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Knowledge and understanding of

1. The nature, roles and structure of the property development and construction industries.
2. The processes of design, construction and servicing of buildings.
3. The environmental, legal, economic and managerial principles of property development in market economy economies.
4. The techniques required for the procurement, planning, management and costing of building development.
5. The techniques of cost management and accounting of property development, construction procurement and construction processes.

Teaching and Learning Methods and Strategies

Core knowledge and understanding is acquired through lectures, tutorials, computer-aided instruction, laboratory practical work, group projects, site visits and guided independent study.

Knowledge is further developed through feedback on non-assessed work during tutorial and practical exercises.

Whilst basic facts are obtained in lectures and guided reading, this knowledge is applied through the specialist modules and the practical application of the principles and skills in project work throughout the course and in specialist project working in Year 3.

Deeper knowledge and understanding in the specialism is also obtained by research in a related subject area and the writing of a dissertation under supervision.

Assessment

Knowledge and understanding is assessed by unseen examinations and assignments, which take various forms. In Year 3, students prepare a dissertation.

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B Intellectual Skills - able to:

1. Think systematically, comprehensively, logically and imaginatively
2. Identify, analyse and solve problems.
3. Plan, organise and manage tasks.
4. Transfer appropriate knowledge and methods across subject modules
5. Rapidly assimilate, evaluate and communicate graphical and written information
6. Plan, conduct research and write a report.

Teaching and Learning Methods and Strategies

These skills are developed through the teaching methods of the programme and through undertaking the required assignments

Knowledge and understanding are developed by lectures, guided reading and tutorial discussion appropriate to the subject content of the module and through application of the knowledge in project work, which includes group project work in Years 1 and 2 and individual specialist project work and a dissertation in Year 3.

Assessment

Skills in Year 1 are assessed by laboratory reports, tutorial presentations, essays and unseen examination papers In years 2 and 3, these skills are assessed by group project working, individual project reports and a dissertation.

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C Practical skills - able to:

1. Communicate design and specification information in drawn and written form by hand and by using computer aided techniques
2. Plan and manage the financial administration of development projects and construction operations.
3. Carry out land and building surveys.
4. Quantify and value building work from design information.

Teaching and Learning Methods and Strategies

These skills are promoted through practical class work in Years 1 and 2 and are further developed by group projects and practical surveying exercises on campus. In year 3, students apply these skills in the specific vocational modules and during a number of site visits and in designed practical project tasks in order to produce specific, developed skill potential.

Assessment

Assessment of practical skills is via coursework and the submission of project reports. Unseen examinations are also used where students are encouraged to display knowledge of techniques and skills. Level 3 projects are designed to test students' competence in exercising practical skills.

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D Transferable skills

1. Communicate effectively by oral, written and graphical means
2. Data collection and manipulation
3. Apply numerical skills to financial information
4. Work effectively independently or in a group situation
5. Career management

Teaching and Learning Methods and Strategies

These skills are communicated generally throughout the course through the teaching and learning processes and class activities used in modules.

Specifically:

Skills 1 and 4 are required in the project work undertaken and in the presentations that form an integral part of all project work.

Skills 2 and 3 are part of the application aspects in the economic and financial modules of Years 1 and 2 and the laboratory work.

Skill 5 is a continual theme of the course in its industrial and professional practice aspects and in the application of these at Year 3 in project work. Students are provided with the facility to become aware of and study the practices and techniques of professional practitioners and firms through guest lectures and recruitment visits of these organisations as part of course activities and career selection.

Assessment

Transferable skills 1-4 are assessed through coursework and presentations.

Please note - This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the module description and in the programme handbook. The University reserves the right to modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance processes or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.