

BSc Quantity Surveying
For students entering Part 1 in 2010/1

UCAS code: K240

Awarding Institution:	University of Reading
Teaching Institution:	University of Reading
Relevant QAA subject Benchmarking group(s):	Construction, property and surveying
Faculty:	Science Faculty
Programme length:	3 years
Date of specification:	09/May/2012
Programme Director:	Mr Keith Hutchinson
Programme Advisor:	
Board of Studies:	Construction Management
Accreditation:	Chartered Institute of Building; Royal Institution of Chartered Surveyors

Summary of programme aims

The aim of the four undergraduate degree 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, and will 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 this, 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;
- 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.

Transferable skills

During the course of their studies at Reading, all students will be expected to enhance their academic and personal transferable skills in line with the University's Strategy for Learning and Teaching. In following this programme, students will have had the opportunity to develop such skills, in particular relating to career management, communication (written, oral and graphical), information handling, numeracy, problem-solving, team working and information technology. and will have been encouraged to further develop and enhance the full set of skills through a variety of opportunities available outside their curriculum.

As part of the programme, students are expected to have gained 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, 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 3, 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)

Compulsory modules

<i>Code</i>	<i>Module title</i>	<i>Credits</i>	<i>Level</i>
CE1CIS	Built Facility and Construction Industry Studies	20	4
CE1CIC	Information and Communication	10	4
CE1CES	Empirical Studies	10	4
CE1CAD	Computer Aided Design	10	4
EC103	Economics for Construction and Engineering	10	4
LW1A05	General Introduction to Law	10	4
CE1CM1	Principles of Management	10	4
CE1CCS	Construction Science	20	4
CE1CCT	Construction Technology	20	4

Part 2 (three terms)

Compulsory modules

<i>Code</i>	<i>Module title</i>	<i>Credits</i>	<i>Level</i>
CE2CMB	Management in the Built Environment	10	5
CE2CRS	Research Skills and Statistics	10	5
CE2CCE	Construction Economics	10	5
CE2CCL	Construction Law and Management	20	5
CE2CPL	Planning Law	10	5
CE2CBP	Building Pathology	10	5
CE2CCB	Building Construction and Environmental Systems	10	5
CE2CEC	Entrepreneurship in Construction and Property	10	5
CE2CPP	Projects	30	5

Part 3 (three terms)

Compulsory modules

<i>Code</i>	<i>Module title</i>	<i>Credits</i>	<i>Level</i>
CE3CCD	Dissertation	40	6
CE3CQC	Quantification and Costing	10	6
CE3CPQ	Project QC	20	6
CE3CS1	Sustainability	10	6

Optional modules (40 credits)

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

CE3CBM	Business Organisation and Management	10	6
CE3CDT	Digital Technology in Construction	10	6
CE3CFM	Facilities Management	10	6
CE3CHR	Human Resource Management	10	6
CE3CIE	Inclusive Environments	10	6
CE3CIB	Intelligent Buildings	10	6
CE3CIC	International Construction	10	6
CE3GIC	Green Innovation in Construction	10	6
CE3CPT	Construction Procurement	10	6
CE3CME	Management of Construction Projects	10	6
CE3CCX	Career Development	10	6
CE3EME	Environmental Management and Energy Economics	10	6
LA1XX1	Institution Wide Language Programme	20	4

Progression requirements

In order to progress from Part 1 to Part 2 of a Bachelor's programme, a student shall normally be required to:

1. Achieve an overall average of 40% in 120 credits; and
2. Achieve not less than 40% in modules taken in Part 1 except that marks of less than 40% but not less than 30% in a total of 20 credits may be condoned.

To gain a threshold performance at Part 2, a student shall normally be required to achieve an overall weighted average of 40% over 120 credits taken in Part 2, with a mark of at least 30% in individual modules amounting to not less than 100 credits. In order to progress from Part 2 to Part 3, a student shall normally be required to achieve a threshold performance at Part 2.

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.

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 pinboard presentations. In Part 3, students undertake a dissertation and a practical vocational project.

Admission requirements

Entrants to this programme are normally required to have obtained:

Grade C or better in English and Mathematics at GCSE

UCAS tariff: 300 points from 3 A-levels or 320 points from 3 A-levels and 1 AS-level.

Subjects and levels: There are no required subjects although Economics, Business Studies, Mathematics or Geography are all relevant.

AS: 2 AS grades are accepted as 1 A level

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 is provided by a wide array of services across the University, including: the University Library, the Student Employment, Experience and Careers Centre (SEEC), In-sessional English Support Programme, the Study Advice and Mathematics Support Centre teams, IT Services and 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 advisers in the Student Services Centre. The Student Services Centre is housed in the Carrington Building and offers advice on accommodation, careers, disability, finance, and wellbeing. 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 and runs workshops and seminars on a range of topics. For more information see 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 construction and development 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 and Theobald, Gleeds, Turner and Townsend, Citex, Ridge and Partners, Bovis, Carillion, 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 consultants who offer building surveying services or property management consultants or owners, including Davis Langdon, E.C. Harris, Gardiner and Theobald, Gleeds, Turner and Townsend, Citex, Ridge and Partners, Bovis, Carillion, 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 for study abroad or for placements

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, may replace a section of the formal programme module content.

Programme Outcomes

Knowledge and Understanding

A. 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/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 on-site, building inspections and individual, specialist project working in Year 3.

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

Specialist options at Year 3 also provide students with an element of choice enabling them to develop subject areas relevant to the Department's research, their own interests and career aspirations.

Assessment

Knowledge and understanding in Years 1 and 2 is

assessed primarily by unseen examinations and a by an element of laboratory and project coursework, in groups and individually.

The balance of assessment methods in Year 3 varies depends upon the options selected but include essays, individual project reports, unseen examination papers and the assessment of a dissertation.

Skills and other attributes

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/learning methods and strategies

These skills are developed through the general teaching methods of the course and particularly in laboratory practical work, essay production and undertaking of project based 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.

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. Undertake simple structural calculations.
3. Carry out land and building surveys.
4. Quantify and value building work from design information.

Teaching/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.

D. Transferable skills - *able to:*

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

Teaching/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

5. Career management

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 process or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.