

**BSc Construction Management**  
**For students entering Level 1 in December 2008**

UCAS code: N/A

Awarding Institution:	The University of Reading
Teaching Institution:	College of Estate Management
Relevant QAA subject benchmarking group(s):	Building and Surveying
Faculty:	Faculty of Science
Programme length:	4 years
Date of specification:	December 2008
Programme Director:	Graham Hough
Board of Studies:	CEM Board for the Undergraduate Courses
Accreditation:	CIOB

**Summary of programme aims**

The programme aims to provide students with a sound understanding of the principles and practices involved in construction management up to degree level standard and to prepare them for progression to Masters level should they so wish.

**Transferable skills**

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

This will be demonstrated in the assignment and project work that the student submits and in the face-to-face sessions where appropriate. The distance learning aspect of the course also encourages self-discipline, self-motivation and good time management.

**Programme content**

The profile that follows states which modules must be taken (compulsory modules), together with the lists of modules from which the student may select their options.

<b>Level 1A (Dec - Sept)</b>	<i>Credits</i>	<i>Level</i>	
<i>Compulsory modules</i>			
<i>Module Title:</i>			
Economics 1	20	C	HE1
Introduction to Law	20	C	HE1
Building Technology 1	30	C	HE1
People and Information Management	20	C	HE1
<b>Level 1B (Dec - Sept)</b>	<i>Credits</i>	<i>Level</i>	
<i>Compulsory modules</i>			
<i>Module Title</i>			
Economics of Property & Construction	20	I	HE2

Building Technology 2	30	C	HE1
Managing Products and Finance	20	I	HE2
QS Practice 1	20	I	HE2

### **Level 2 (Dec - Sept)**

#### *Compulsory modules*

#### *Mod Code Module Title*

Building Technology 3	30	I	HE2
Principles of Building Structure	20	H	HE3
Construction Site Management	20	H	HE3
Contract Procedures	20	I	HE2

### **Level 3 (Dec - Sept)**

#### *Compulsory modules*

#### *Mod Code Module Title*

Integrated Management Project	20	H	HE3
Project	30	H	HE3

#### *Optional modules:*

#### *Two from the following:*

Maintenance Management	20	H	HE3
Construction Law	20	H	HE3
Facilities Management	20	H	HE3
International Construction	20	H	HE3
Construction Planning, Tendering & Finance	20	H	HE3

### **Progression requirements**

Each module is assessed to an overall 40% pass mark.. There is no minimum requirement in either examinations or assignments.

Students who fail one module at Level 1A may proceed to Level 1B at the discretion of the Examinations Board. They may then have a further attempt at that module at the same time as sitting their Level 1B examinations.

Students who fail one module at Level 1B may proceed to Level 2 at the discretion of the Examinations Board. They may then have a further attempt at that module at the same time as sitting their Level 2 examinations.

Students with certain exemption and progression profiles may be allowed to do a combination of modules from different levels (excluding Level 3) in order to balance their workload between years of their course.

Students who fail one module at Level 2 may proceed to Level 3 on the same basis as above.

Students who fail more than one module must pass the failed modules before proceeding to the next level, notwithstanding the balancing referred to above.

Students are allowed three attempts at each module at each level of the course.

### **Summary of teaching and assessment**

Teaching is organised in modules that typically involve distance learning study materials supplemented by periods of face-to-face teaching. All modules are assessed by a mixture of coursework and examinations with the exception of the project at Level 3. Details are provided in the module specifications.

The overall classification of the Degree is based upon Level 3 results, with due regard to Level 2 results in appropriate circumstances.

Students who leave the course after level 1B with a minimum of 120 credits will be awarded a Certificate of Higher Education in Construction Management, and those who leave after level 2 with a minimum of 240 credits will be awarded a Diploma of Higher Education in Construction Management.

### **Admission requirements**

Entrants to this programme are normally required to have Grade C or better in English in GCSE or equivalent and achieved at least one of the following:

- 2 or 3 A-Levels (CC or DDD) (2 AS grades are accepted in place of one A-Level)
- NVQ level 4 or 5, or GNVQ Advanced
- University degree, diploma or certificate
- Degree or certificate from a recognised technological or other institution
- HNC or HND
- ONC/OND or BTec Diploma
- Professional qualification from an acceptable institution
- Certain armed forces qualifications or relevant work experience
- Scottish Higher
- Irish Leaving Certificate
- Persons deemed to have relevant experience
- CEM Diploma in Surveying Practice

**Admissions Tutor:** Graham Hough (College of Estate Management)

### **Support for students and their learning**

The University provides learning support for local students through the library, which, across its three sites, holds over a million volumes, subscribes to around 4,000 current periodicals. Students currently have no access to the University computers. It is a requirement of the course that students have personal access to a computer with internet facilities, both for the College's website and for the wealth of internet technical information.

Within the College of Estate Management further support is provided by direct email contact with subject tutors, web-based discussion forums through the use of Blackboard, and the provision of lecture notes, assignment answers and the option of submitting

assignments on the College web pages. There is a Course Adviser to offer advice on the choice of modules within the programme. The course administrators, Student Services staff and tutors (as appropriate) provide pastoral care. Text books, videos and CDs are currently provided to support the study material.

### **Career prospects**

The students are normally already in relevant employment and are using the Degree as a means of gaining a professional qualification. The course is widely seen as enhancing career prospects but often leads students to further study at postgraduate level.

### **Opportunities for study abroad or for placements**

Not applicable. As the programme is on a distance learning basis students are free to travel whilst they study and examinations can normally be arranged in most countries with sufficient notice.

### **Educational aims of the programme**

The programme aims to provide a thorough Degree level education in Construction Management, with a sound understanding of the principles and practices required by the current profession. It aims to produce competent construction managers with the ability to progress to Professional status.

### **Programme Outcomes**

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the areas shown on the following pages.

### **Knowledge and understanding**

#### **A Knowledge and understanding of:**

- 1 the academic and theoretical principles specific for professional expertise in their chosen discipline
- 2 the technology required for constructing a range of buildings and their associated services
- 3 the legal background to working in the construction industry
- 4 the economics relating to construction and property
- 5 the management of construction activities, people and projects

### **Teaching/learning methods and strategies**

The knowledge required for each module is contained in the study papers and supported by lectures, workshops and seminars. Study papers contain self assessment questions and answers. Feedback is given on assessed work only. In the later stages of the programme students are expected to research more beyond the study materials provided. Use is also made of video and the VLE.

### *Assessment*

Knowledge is tested through a combination of coursework and unseen examinations. The final year project is a piece of individual research work.

### **Skills and other attributes**

#### **B Intellectual skills** – able to:

- 1 think logically
- 2 analyse and solve problems
- 3 organise tasks into a structured form
- 4 transfer appropriate knowledge and methods from one topic within a subject to another
- 5 plan, conduct and write a report on an independent project
- 6 utilise well developed transferable skills
- 7 demonstrate critical appraisal and synthesis to problem scenarios
- 8 develop integrative skills
- 9 incorporate experiential knowledge.

#### **Teaching/learning methods and strategies**

Logic is an essential part of the skill that those in the planning, executing and managing of construction projects must possess. Analysing and solving problems are related to the entire construction process.

The format of the assignments and examination questions will generally be based around practical situations requiring problem solving. More straightforward problems will be used at the lower levels, but at Levels 2 and 3 students will be required to transfer the knowledge from previous modules and apply it to particular problems. Many construction managers are involved in writing reports. The project will develop independent research and report writing skills.

### *Assessment*

Items 1 – 4 will be assessed during the assignments and examinations, with item 5 being tested in the project module at Level 3. The study material includes the use of self-assessment questions (SAQs) to supplement the learning process.

#### **C Practical skills** – able to:

- 1 be equipped with the skills necessary for the management of the construction process
- 2 meet the needs of clients within legal, cost and environmental constraints

#### **Teaching/learning methods and strategies**

Site construction processes are based around the need to build to time and within budget, whilst maintaining high quality work and taking into account Health and Safety requirements. Building Technology and Management form the core modules. The Introduction to Law provides an outline of the legal system as it affects construction. Economics will cover the economics of the UK construction industry

### *Assessment*

All assessment is in the assignments and examinations.

#### **D Transferable skills** – able to:

- 1 communicate effectively including using IT
- 2 work as part of a team
- 3 be self-motivated
- 4 manage time
- 5 develop CPD discipline, including web-based CPD
- 6 develop a capacity for independent thought
- 7 develop personal skills
- 8 communicate using quantitative methods and information systems
- 9 provide personal arguments related to building construction and creatively offer alternative and original solutions.

#### **Teaching/learning methods and strategies**

The use of IT is embedded throughout the course. The distance learning aspect of the course encourages self-motivation and time management and, due to the fact that most students are already in employment, it encourages the development of good CPD practice. Team working is difficult to encourage with this type of course but local study groups are encouraged and group exercises at face-to-face sessions are undertaken. The integrated management project will allow students to work as members of a team regardless of location.

### *Assessment*

Communication in the written form is assessed by assignments and examinations. The ability for independent thought is assessed in the project. The other skills are not directly assessed but their effective use will improve performance in modules.

**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.**