

## REFERRED/DEFERRED ASSESSMENT - SESSION 2008/09 SUMMER 2009

<b>COURSE CODE</b>	<b>BUIL 1131</b>
<b>COURSE TITLE</b>	<b>Studio 4 CSM</b>
<b>COURSE COORDINATOR</b>	<b>Carl Woodham</b>

### To Students

If you have failed a course or part of a course and have been allowed by the Progression and Award Board to be reassessed in one or several of the courses, this will be indicated in your result letter. On the back of the result letter, the words '*Failed -retake permitted before the next academic year*' will appear next to the relevant assessment items or course(s).

In that case, you are required to submit coursework and/or to take an examination again as appropriate in August 2009.

### Examination timetable

The detailed examination timetable will be posted on the University website **towards the end of July**. Deferred/referred examinations will be timetabled between 17<sup>th</sup> to 28th August 2009. The link can be followed from here:

<http://www.gre.ac.uk/students/exams>

### Deadline for submitting coursework

Coursework must be delivered by hand no later than **Monday 17<sup>th</sup> August 2009** to the School of Architecture & Construction.

If you send your coursework by post, it must be sent by first class recorded delivery (keep a copy of both the postal receipt and the coursework) **no later than Monday 17<sup>th</sup> August 2009** to:

Referred/Deferred Coursework  
School of Architecture & Construction  
Mansion Site  
Bexley Road  
London SE9 2PQ  
UK

### Coursework submission

All coursework must be submitted by the deadline and method as above and must be accompanied by the appropriate electronic header sheet.

## **Postal Submissions**

All postal submissions, Coursework and Portfolios, will be receipted with the date of postage as the date of submission.

It is the responsibility of the student to ensure that the work is submitted on time by the above method.

## **Queries**

Any queries should be emailed to

[\*\*acqueries07@gre.ac.uk\*\*](mailto:acqueries07@gre.ac.uk)

with

- Your full name
- Your student ID number
- Your Programme of Study e.g. BA Architecture
- The title and code of the course(s) with which you have a query
- The nature of the query

Please note that emails to this address will be answered up to Friday 25th September 2009, after this date enquiries should be sent direct to the Course Coordinator. Staff email addresses and contact numbers can be looked up here:

[\*\*http://www.gre.ac.uk/staff\\_intranet/directory\*\*](http://www.gre.ac.uk/staff_intranet/directory)

<b>COURSE CODE</b>	<b>BUIL 1131</b>
<b>COURSE TITLE</b>	<b>Studio 4 CSM</b>

Please find below details of the coursework to be submitted and/or examination advice as appropriate.

<b>Assessment item</b>	<b>Single portfolio item</b>
<b>Electronic header sheet number</b>	<b>155886</b>
<p><b>Details of work to be undertaken: see below</b>  <b>Project/Coursework Title:</b></p> <p><b>Alterations - flat to pitched roof conversion</b></p> <p><b>Aims</b></p> <p>This assignment aims to;</p> <ol style="list-style-type: none"> <li>1. Investigate some of the potential issues relating to the extension of existing buildings</li> <li>2. Strengthen the student's awareness of the influence of legislation on the redevelopment of existing buildings</li> <li>3. To make practical use of the Approved Documents to the Building Regulations when designing a detailed technical solution</li> <li>4. Promote an appreciation of good building practice</li> <li>5. Form an appreciation of the complexity of even small structures</li> <li>6. Develop analytical and problem solving skills</li> <li>7. Strengthen research, communication and presentation skills</li> <li>8. Develop team working skills in relation to a specific project</li> </ol> <p><b>Learning Outcomes</b></p> <p>At the end of this assignment, each student should;</p> <ol style="list-style-type: none"> <li>1. Be able to use the Approved Documents to the Building Regulations, as they apply to the alteration of simple domestic structures</li> <li>2. Have developed an awareness of a range of technical and administrative issues that might influence minor structural alterations to existing buildings</li> <li>3. Be aware of some of the legislation used to control building works</li> <li>4. Appreciate the interaction between design, selection of materials and construction techniques</li> <li>5. Prepare simple construction section drawings to building industry standards</li> <li>6. Draft limited specifications for simple rehabilitation work</li> </ol> <p><b>Context</b></p> <p>The preparation of specifications for small scale building work and contract administration are core building surveying disciplines. Building surveyors must not only specify adequate construction details but should ensure that</p>	

they are correctly installed. Numerous standard and 'robust' building details are now used throughout the construction industry. The building surveyor should be able to identify the most appropriate detail for their purpose, fully appreciating the impact upon the design and also the need to modify standard details to suit the prevailing situation.

In this instance, the original flat roof to a 1970s built full-width single storey rear extension to a two storey typical 1930s semi-detached house has failed. The flat roof joists to the extension span front-to-back over a clear span of 2500mm and the upper surface of the existing waterproof covering is 2900mm over the adjacent ground level (GL). First floor window sills are located 900mm above the extension roof surface. Additionally, an external 100mm Ø branch waste pipe (serving a first floor WC) is affixed to the surface of the original rear elevation and discharges to a cast iron (CI) soil & vent pipe (SVP) (also located on the rear elevation). You are to illustrate how such a flat roof might have been constructed and explain the most likely failure mechanism(s). You must then prepare a suitable design to convert the existing flat roof to a pitched type.

### **Task**

Working as individuals, prepare and submit;

1. A fully annotated construction section drawing of the most likely eaves detail to an existing 1970s single storey domestic extension
2. A written support to your drawing explaining how the original flat roof might have been constructed and the most likely failure mechanism(s)
3. A written specification and fully annotated construction section drawing(s) detailing how the existing roof could be converted to a pitched type, complying with current regulations and good building practice. Detail all relevant dimensions, materials and components
4. A concise justification of your design. Include all the factors requiring consideration, particularly those that influenced the design

### **Submission format**

1. The maximum word count for this task is 3000, including annotation but excluding appendices. Submissions exceeding 110% of the word limit may be down-marked. A word count must be included at the end of the submission
2. The written submission must be word processed in 12pt Arial font at 1½ line spacing, portrait format. Printing must be single sided on white A4 paper. Annotation on hand-drawn drawings may be by hand
3. Drawings may be hand-drawn or utilise CAD on A3 or A4 paper, correctly bound into the document
4. All sheets are to be affixed with two metal staples through the top left corner. Folders, plastic sleeves and the like are not required
5. Appendices (if used) are to be limited to one page. Any appended material must be relevant and cross-referenced with the main body of the text
6. The work must be fully referenced using the Harvard system

**This task is to be undertaken by individual students and comprises 100% of the overall referred / deferred course assessment.**

**LATE SUBMISSIONS MAY NOT BE MARKED**

**Assessment criteria**

Assessment criteria	Specific assessed areas	Weight
Technical thoroughness & correctness	Evidence of background reading & wider knowledge base Depth of specific research & understanding of subject Scope, completeness & correctness of technical detail	30
Supporting justification for original construction & new design	Evidence of background reading & wider knowledge base Depth of specific research & understanding of subject Objectiveness of arguments & discussion Evidence of development of own ideas Critical analysis of subject matter	30
Quality & clarity of drawings and annotation	General clarity, layout & title block Adherence to drafting conventions Drawing completeness & detail Annotation detail, relevance & correctness	20
Presentation, acknowledgement of sources & referencing	General structure, format, clarity, binding & folding of drawings Spelling & grammar Depth & scope of referencing material Extent of referencing throughout text Adherence to Harvard convention	20
Total		100

**Availability of course tutor for consultation:**

**Via e-mail**

[C.Woodham@gre.ac.uk](mailto:C.Woodham@gre.ac.uk)