THE UNIVERSITY OF NEW SOUTH WALES

FACULTY OF THE BUILT ENVIRONMENT

BLDG 1211

Domestic Construction

Course Outline

Session 1, 2012
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1. COURSE STAFF

Lecturer in charge: Gerald Duncan (part time sessional lecturer)
Office: c/- Reception level 4, Red Centre Building
Phone: 0466 998 400 or 9217 5219
Primary Email: duncan40@tpg.com.au
Alternate email: gerald.duncan@tafensw.edu.au
Contact times: Mondays 1:00 pm. – 5.00 p.m.
Wednesdays 9.00a.m. – 12.00 a.m.
(Please contact me within these times)
Tutors: Gerald Duncan
Chris Nixon (ph: 9217 5222 or 0408 118 362 )
Email: Christopher.nixon@tafensw.edu.au

2. COURSE INFORMATION

Course name: Domestic Construction
Course number: BLDG 1211
Session: 1
Year: 1
Units of Credit: 6
Pre-requisites: - This course has no prerequisites

- This course is a pre-requisite for Bldg 1212 and Bldg 2212

2.2. Teaching

This subject is taught in two strands:
- Lectures (Weeks 1 - 12), Thursdays, 9:00am – 11:00am, Civil Engineering Room 101
- Tutorials (Week 3 - 11, Thursdays, 11:00am – 1:00pm, Old Main Building, Room 2.32

Please note that for weeks 1 & 2 we shall remain in the Civil Engineering building for the entire 4 hours.
- Mid semester break is from 3rd April till 13th April (the first of these two weeks is an FBE only non teaching week)
- Exams are conducted in the weeks from 8th June to 25th June 2012.
- Mid year break is from 26th June till 15th July

IMPORTANT – If you choose to take holidays during the exam period there are no alternative exam dates that you can sit. Failure to attend exams will result in a fail being recorded and you shall have to repeat the subject.
Note: the tutorials are an integral part of the major assignment and in this context students should attend all tutorials. An attendance roll shall be taken during tutorials and attendance will reflect 5% of your overall assessment. Refer to Major assignment handout for more details on this issue. See “course schedule” for more details.

2.3. Aims

To familiarise the student with the construction procedures involved in building a house in accordance with Australian practice and regulations. Emphasis is placed on detached project home style dwellings including brick veneer, cavity brick and timber frame construction; footing and floor construction; roofing and internal fitout. The housing industry in general and methods of supervision and site works are also covered but not in great detail.

2.4. Expected Outcomes

An understanding of the diverse principles and details relating to onsite domestic construction and it’s management.
### 3. COURSE SCHEDULE

#### Lecture and tutorial programme

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture topics</th>
<th>Lecture content</th>
<th>Major assignment tutorials (see handout for details)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction and the building process</td>
<td>• Subject objectives&lt;br&gt;• Readings&lt;br&gt;• Assessment details&lt;br&gt;• People/ groups involved in construction, ethics and TQM/ C&lt;br&gt;• Workings of the industry&lt;br&gt;• Councils, BCA &amp; Standards</td>
<td>No tutorial</td>
</tr>
<tr>
<td>2</td>
<td>The building site</td>
<td>• Site assessment&lt;br&gt;• Site establishment&lt;br&gt;• Foundation soils &amp; classifications</td>
<td>No tutorial&lt;br&gt;(preparatory notes will be posted on the website for the Week 3 tutorial)</td>
</tr>
<tr>
<td>3</td>
<td>Excavation and footing systems</td>
<td>• Plant &amp; equipment&lt;br&gt;• Water table and drainage&lt;br&gt;• Excavation adjacent footings&lt;br&gt;• Types of footings – pad, strip, piers, piles, slabs&lt;br&gt;• Sub floor construction</td>
<td>Begin site establishment and bulk excavation model</td>
</tr>
<tr>
<td>4</td>
<td>Floor and wall framing</td>
<td>• Bearers &amp; joists, platform, floating and cut in floors&lt;br&gt;• Deep floor joists, framing &amp; suspended concrete floors&lt;br&gt;• Wall frame members and functions &amp; bracing</td>
<td>Continue site establishment and bulk excavation model</td>
</tr>
<tr>
<td>5</td>
<td>Wall cladding systems</td>
<td>• Brick veneer, cavity brick, timber and other cladding&lt;br&gt;• Scaffolding</td>
<td>Begin concrete slab/ bearers and joist mode19</td>
</tr>
<tr>
<td>6</td>
<td>Mid semester test, Roof shapes &amp; Raftered roofs</td>
<td>• Type of roof shapes &amp; basic roof geometry&lt;br&gt;• Ceiling frame members &amp; structural functions</td>
<td>Continue with concrete slab/ bearers and joist model</td>
</tr>
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</table>
### 4. LEARNING AND TEACHING PHILOSOPHY
This subject aims to engage students in the learning process by creating an environment that encourages inquiry, is interesting and challenging. It is set in a context that allows students to build on their previous knowledge and experience. Relevance to real world situations is regularly reinforced. Multiple teaching methods are employed to assist students learn in different ways. Clear goals, outcomes and course requirements are set to allow students to take responsibility for their learning. Assessment and other student learning activities are designed to support intended learning outcomes.

### 5. RESOURCES
You should make sure you have a copy of the notes before each progressive lecture starts. In order to access the web site you will need to enter your student password and username. If you don't know how to do this go and see BECU.
(Built Environment Computer Unit) on the second floor of the Red Centre Building. Make sure you take your student card. Additional resources such as web sites and downloadable material will be provided at the above web site.

6. ASSESSMENT
1. Major Assignment 30%
2. Mid semester exam 20%
3. Final Exam 50%

Total 100%

Major Assignment
You are required to build a model house in a group assignment. Each member in the group will take responsibility for a specific task (e.g. the concrete slab part of the model; the roof frame part of the model etc.). On this basis, students will receive 65% of their major assignment mark for the task for which they are directly responsible, and the other 35% will be based on the performance of their entire group. As a result, each individual will have a vested interest in ensuring that the overall model is of a high quality but have an additional interest in making sure their bit is particularly well done. This requires teamwork from the individuals and coordination from the Construction manager. A detailed handout provides specific information on such issues and will be managed by weekly tutorials as detailed in the “Course Schedule”.

Mid Semester Exam
This will be a 45 minute class based exam aimed at assessing your understanding of work completed in the first half of the course. It will be conducted during class in Week 6.

Final Exam
This will be a 2 hour exam that will cover the entire semester's work.
You MUST pass the final exam to pass the overall course.

7. ACADEMIC HONESTY AND PLAGIARISM
Plagiarism is the presentation of the thoughts or work of another as one’s own.* Examples include:
• direct duplication of the thoughts or work of another, including by copying work, or knowingly permitting it to be copied. This includes copying material, ideas or concepts from a book, article, report or other written
document (whether published or unpublished), composition, artwork, design, drawing, circuitry, computer program or software, web site, Internet, other electronic resource, or another person’s assignment without appropriate acknowledgement;

- paraphrasing another person’s work with very minor changes keeping the meaning, form and/or progression of ideas of the original;
- piecing together sections of the work of others into a new whole;
- presenting an assessment item as independent work when it has been produced in whole or part in collusion with other people, for example, another student or a tutor; and,
- claiming credit for a proportion a work contributed to a group assessment item that is greater than that actually contributed.†

Submitting an assessment item that has already been submitted for academic credit elsewhere may also be considered plagiarism.

The inclusion of the thoughts or work of another with attribution appropriate to the academic discipline does not amount to plagiarism.

Students are reminded of their Rights and Responsibilities in respect of plagiarism, as set out in the University Undergraduate and Postgraduate Handbooks, and are encouraged to seek advice from academic staff whenever necessary to ensure they avoid plagiarism in all its forms.

The Learning Centre website is the central University online resource for staff and student information on plagiarism and academic honesty. It can be located at: www.lc.unsw.edu.au/plagiarism

The Learning Centre also provides substantial educational written materials, workshops, and tutorials to aid students, for example, in:

- correct referencing practices;
- paraphrasing, summarising, essay writing, and time management;
- appropriate use of, and attribution for, a range of materials including text, images, formulae and concepts.

Individual assistance is available on request from The Learning Centre. Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items.

* Based on that proposed to the University of Newcastle by the St James Ethics Centre. Used with kind permission from the University of Newcastle
8. COURSE FEEDBACK
Student feedback is periodically gathered for this course using UNSW’s Course and Teaching Evaluation and Improvement Program, plus other means. The feedback is used to constantly improve the course and teaching methods.

9. ADMINISTRATIVE MATTERS
The following issues are of generic importance to this course as well as the university as a whole. Details on the points below can be found at https://my.unsw.edu.au/student/resources/Policies.html.

- Expectations of students (including attendance at lectures and tutorials/ laboratory classes/ seminars; and computer use, for example, in the use of email and online discussion forums)
- Information on relevant Occupational Health and Safety policies and expectations
- Examination procedures and advice concerning illness or misadventure
- Equity and diversity: those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course convener prior to, or at the commencement of their course, or with the Equity Officer (Disability) in the Equity and Diversity Unit (9385 4734 or www.studentequity.unsw.edu.au). Early notification is essential to enable any necessary adjustments to be made.

9.2. Course progression:
- You MUST pass the final exam in the construction strand to pass the overall course.
- You MUST show reasonable progress and involvement in class and assignments. This will be checked regularly.
- Provide concise information in your assignments. Padding will result in lower marks.
- You are expected to attend at least 80% of lectures.

9.3. Late submissions:
Late submissions (without an acceptable reason) will attract a deduction in marks as detailed in the major assignment handout.