Description: Design and Location of Urban Services

Subject | Cat-nbr | Class | Term   | Mode | Units | Campus  
--------|---------|-------|--------|------|-------|---------
ENV     | 4202    | 30961 | 1, 2004 | EXT  | 1.00  | TW MBA  

Academic group: FOENS  
Academic org: FOES03  
Student contribution band: 2  
ASCED code: 030907  

STAFFING  
Examiner: Ron Ayers  
Moderator: Ken Moore  

REQUISITES  
Pre-requisite: SVY2303  

RATIONALE  
Surveyors working in the land development and construction industries require a sound knowledge of the engineering principles and practice associated with the design and location of services in both urban and rural estates.  

SYNOPSIS  
Students will gain an understanding of the engineering principles and practices commonly used to locate and construct service facilities such as drainage, water supply, sewerage, electricity, telecommunications and gas.  

OBJECTIVES  
On completion of this course, students should be able to:  

- describe the relevant properties of fluids;  
- analyse simple problems involving open channel flow, pipe flow and fluid flow measurements;  
- identify the processes of precipitation and runoff;  
- design urban stormwater drainage systems, including road culverts;  
- describe the components of a water supply distribution system;  
- apply knowledge of open channel and pipe flows to the design of wastewater collection systems;
• identify the requirements for the installation of electricity, telecommunications and gas lines.

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Hydrology</td>
<td>10.00</td>
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<tr>
<td>2. Hydraulics</td>
<td>35.00</td>
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<tr>
<td>3. Drainage Design</td>
<td>20.00</td>
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<tr>
<td>4. Water Supply</td>
<td>15.00</td>
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<tr>
<td>5. Sewerage</td>
<td>15.00</td>
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<tr>
<td>6. Electricity Telecommunications and Gas</td>
<td>5.00</td>
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</tbody>
</table>

TEXT and MATERIALS required to be PURCHASED or ACCESSED:

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

Students are required to purchase or have access to a hand held battery operated calculator which does not have keys for the alphabet, for the final examination in this course.

REFERENCE MATERIALS:

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.


(In International Edition)


(Rev Edition)

Main Roads Department Queensland 1975, Urban Road Design Manual, Main Roads Department, Brisbane, Vol 2.

(388.409943 Que)


(628.1 Gui)


(628.24 Que)

STUDENT WORKLOAD REQUIREMENTS:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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</thead>
<tbody>
<tr>
<td>Assessment</td>
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<tr>
<td>Directed Study</td>
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<td>Examinations</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
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<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
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<td>27 Apr 2004</td>
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<tr>
<td>ASSIGNMENT 2</td>
<td>200.00</td>
<td>20.00</td>
<td>24 May 2004</td>
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<td>3 HOUR RESTRICTED EXAMINATION</td>
<td>700.00</td>
<td>70.00</td>
<td>END S1</td>
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</tbody>
</table>

(see note 1)

NOTES:

1. Student Administration will advise students of the dates of their examinations during the semester.

IMPORTANT ASSESSMENT INFORMATION

1 Attendance requirements:

There are no attendance requirements for this course. However, it is the students' responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
2 Requirements for students to complete each assessment item satisfactorily:
To complete each of the assessment items satisfactorily, students must obtain at least 50% of the marks available (or at least a grade of C-) for each assessment item.

3 Penalties for late submission of required work:
If students submit assignments after the due date without prior approval then a penalty of 20% of the total marks available for the assignment will apply for each working day late.

4 Requirements for student to be awarded a passing grade in the course:
To be assured of receiving a passing grade a student must achieve at least 45% in each of the summative assessments and at least 50% of the available weighted marks for the summative assessment items.

5 Method used to combine assessment results to attain final grade:
The final grades for students will be assigned on the basis of the weighted aggregate of the marks (or grades) obtained for each of the summative assessment items in the course.

6 Examination information:
In a Restricted Examination, candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the restricted examination for this course are: writing materials (non-electronic and free from material which could give the student an unfair advantage in the examination); calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the examination).

7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held during the examination period at the end of the semester of the next offering of this course.

8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL http://www.usq.edu.au/corporateservices/calendar/part5.htm or in the current USQ Handbook.

ASSESSMENT NOTES

1 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner.

2 Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.

3 In accordance with University's Assignment Extension Policy (Regulation 5.6.1), the examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances.

4 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.
5 The Faculty will NOT accept submission of assignments by facsimile.
6 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.
7 In the event that a due date for an assignment falls on a local public holiday in their area, such as a Show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the Examiner's convenience.
8 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded one of the temporary grades: IM (Incomplete - Make up), IS (Incomplete - Supplementary Examination) or ISM (Incomplete -Supplementary Examination and Make up). A temporary grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non directed personal study.
9 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).

OTHER REQUIREMENTS
1 Students will require access to e-mail and internet access to USQConnect for this course.