



The University of Southern Queensland

Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.
Please consult the web for updates that may occur during the year.

Description: Transport Engineering						
Subject	Cat-nbr	Class	Term	Mode	Units	Campus
CIV	3703	90319	2, 2009	ONC	1.00	Toowoomba

Academic group:	FOENS
Academic org:	FOES03
Student contribution band:	2
ASCED code:	030909

STAFFING

Examiner: Ron Ayers
Moderator: Trevor Drysdale

SYNOPSIS

The planning, construction and operation of civil engineering works is critical to the well being of societies within the modern world. It is important, therefore, that the graduate civil engineer have a broad understanding the role and planning of transport systems. As the majority of civil engineers working in the transport sector are concerned with road transport, a greater emphasis will be placed on this mode of transport. Students of this course will be assumed to have a basic understanding of statistical techniques, soil mechanics, engineering materials and technical drafting skills (including CAD).

OBJECTIVES

The course objectives define the student learning outcomes for a course. The assessment item(s) that may be used to assess student achievement of an objective are shown in parenthesis. On completion of this course, students should be able to:

1. outline the role of transportation systems within modern societies and the relationship between transport and land use, and appraise the potential of new transport technologies; (Online discussion report; 2 Hour Closed Examination)
2. describe current transportation planning practice (with particular emphasis on road network planning) and carry out simple planning and modelling studies; (Online discussion report; Assignment; 2 Hour Closed Examination)
3. recommend on testing procedures for road pavement material selection, and design road pavements and road surfacings; (Online discussion report; Assignment; 2 Hour Closed Examination)
4. carry out the geometric design of a road (including the geometric design of intersections of the road with other roads); (Assignment; 2 Hour Closed Examination)
5. select and justify the procedures to be used in a particular road construction or road maintenance situation; (Online discussion report; 2 Hour Closed Examination)

6. list and discuss the factors influencing road traffic operation, and analyse the level of service of a road section; (Online discussion report; 2 Hour Closed Examination)
7. organise and execute simple traffic studies; (2 Hour Closed Examination)
8. design parking facilities for road vehicles; (2 Hour Closed Examination)
9. design traffic control facilities for road vehicles; (2 Hour Closed Examination)
10. describe the basic characteristics of railway engineering, and air and water transportation systems; (Online discussion report; 2 Hour Closed Examination)
11. carry out simple economic analyses of transport network improvement proposals; (2 Hour Closed Examination)
12. describe the environmental and energy issues in modern transport; (2 Hour Closed Examination)
13. demonstrate familiarity with the use of computer software to assist in the solution of transport engineering problems; (Assignment)
14. prepare, to a professional standard, technical reports in English having good structure and format, high standards of spelling, grammar and punctuation, and appropriate and adequate technical content; (Online discussion report; Assignment)

TOPICS

	Description	Weighting (%)
1.	Transport and Society	2.00
2.	Transport Planning	17.00
3.	Road Pavement Materials	10.00
4.	Road Pavement Design	12.00
5.	Road and Intersection Design	16.00
6.	Road Construction and Maintenance	4.00
7.	Traffic Operation and Studies	10.00
8.	Provision for Stationary Vehicles	4.00
9.	Traffic Control and Management	7.00
10.	Railway Engineering	6.00
11.	Air and Water Transport	4.00
12.	Transport Economics	2.00
13.	Environmental and Energy Issues in Transport	4.00
14.	The Future of Transport	2.00

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).

CIV3703 Transport Engineering External Study Package, USQ Publication,

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.

References included in Study Package.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	30.00
Directed Study	71.00
Examinations	2.00
Lectures	39.00
Tutorials	13.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT	200.00	20.00	31 Aug 2009
ONLINE DISCUSSION & REPORT	200.00	20.00	12 Oct 2009
2 HOUR CLOSED EXAM	600.00	60.00	END S2

IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and 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. Participation in on-line discussion groups. Students are to participate in on-line discussion groups beginning in Week 1. Each student must submit at least five entries and a final report.
- 2 Requirements for students to complete each assessment item satisfactorily:
To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks or a grade of at least C-. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)
- 3 Penalties for late submission of required work:
If students submit assignments after the due date without extenuating circumstances then a penalty of 5% of the assigned mark may apply for each working day late up to a maximum of ten working days at which time a mark of zero can be recorded for that assignment.
- 4 Requirements for student to be awarded a passing grade in the course:
To be assured of receiving a passing grade in a course a student must obtain at least 50% of the total weighted marks for the course.

- 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:
The examination in this course is a closed examination. In a Closed Examination, candidates are allowed to bring only writing and drawing instruments into 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 despatched to USQ within 24 hours 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).