



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: Construction Surveying

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
SVY	2303	90555	2, 2009	EXT	1.00	Toowoomba

Academic group:	FOENS
Academic org:	FOES05
Student contribution band:	2
ASCED code:	031101

STAFFING

Examiner: Shane Simmons
Moderator: Peter Gibbings

REQUISITES

Pre-requisite: SVY2301

RATIONALE

It is necessary for surveyors to have an understanding of the design and survey requirements for a variety of engineering construction projects. Surveyors are required to understand the contractual arrangements, the design and planning methods, and be able to set-out engineering designs for construction projects. Surveyors, as professional advisers, must exercise due care and diligence in carrying out duties and be able to minimise the risk of problems and errors associated with major construction projects.

SYNOPSIS

Specific applications of the principles and techniques for construction surveying are applied to a range of engineering projects in this course. The main emphasis will be on the practical application of construction surveying techniques required for engineering and land development projects. Just as importantly, it is essential that surveyors understand the engineering principles and design of engineering works.

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 proficient in understanding:

1. engineering plans utilised on the various construction sites (Assignment 1, Assignment 2 and Exam);
2. engineering principles and design, construction methods and surveying techniques used in the following projects: low and high rise buildings; dam construction and hydraulic

- applications; domestic sewerage systems; urban and rural roads; urban stormwater and culvert design; hydrographic surveys (Assignment 1, Assignment 2 and Exam)
3. management of engineering projects, contractual agreements and liability (Assignment 1, Assignment 2 and Exam)

TOPICS

	Description	Weighting (%)
1.	Job Organisation and Control	5.00
2.	Contracts	5.00
3.	Liability of Surveyors	5.00
4.	Road location, construction and surveys	15.00
5.	Horizontal and vertical geometry for road construction	10.00
6.	Building construction surveys	5.00
7.	Sewerage and drainage surveys	10.00
8.	Dam construction	5.00
9.	Hydraulics and culvert design	15.00
10.	Hydrographic surveying	10.00
11.	As-constructed surveys	5.00
12.	Urban Stormwater Design	10.00

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).

Handheld programmable calculator (Hewlett Packard HP48G is recommended).

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.

Mikhail, A. 1998, *Surveying Theory and Practice*, 7th edn, McGraw-Hill, Boston.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	37.00
Directed Study	52.00
Examinations	2.00
Private Study	64.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	200.00	20.00	07 Sep 2009
ASSIGNMENT 2	200.00	20.00	19 Oct 2009
2 HOUR RESTRICTED EXAMINATION	600.00	60.00	END S2 (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 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:
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); only hand held battery operated programmable calculators are permitted. Students must note the make and model of the calculator used on the front of the Answer Book or Examination Paper where applicable. This may be subject to checking by the supervisor.

- 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).