Description: Geology and Surveying Practice

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
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<tr>
<td>SVY</td>
<td>2905</td>
<td>38218</td>
<td>3, 2004</td>
<td>EXT</td>
<td>0.00</td>
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Academic group: FOENS
Academic org: FOES05
Student contribution band: 2
ASCED code: 031100

STAFFING
Examiner: Shane Simmons
Moderator: Kevin McDougall

OTHER-REQUISITES
Recommended prior or concurrent study: SVY1101

RATIONALE
Practice courses seek to develop basic competencies and attributes commensurate with the intuitive and professional skills sought in engineering graduates. This course provides a broad introduction to the practical aspects of surveying and geology and focuses on the development of analytical, manual, diagnostic, communication and group interaction skills.

SYNOPSIS
The course is subdivided into practice modules covering aspects of Geology and Surveying. Practice requirements for each module include field work in a team environment, excursions and the preparation of individual reports on these practice activities. Practical sessions in surveying are designed to develop the manual and analytical skills required to conduct simple levelling, chaining and theodolite traverses. The geological field excursion provides the student with specialised instruction on the identification and the engineering significance of geological features.

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

1. identify the engineering significance of common geological structures and discuss the implication of weathering and landform development;
2. identify a range of minerals and rocks and apply their properties to resolve engineering examples and problems; 
3. check the collimation of an automatic level and complete a closed level traverse; 
4. calculate coordinates and areas from survey data measured in a horizontal plane; 
5. prepare technical reports on the above to a suitable engineering standard.

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>Geology Field Excursion</td>
<td>25.00</td>
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<tr>
<td>Report on Geology Practical Exercises</td>
<td>25.00</td>
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<tr>
<td>Surveying Practical Work and Data Reduction</td>
<td>50.00</td>
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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).

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.

STUDENT WORKLOAD REQUIREMENTS:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Laboratory or Practical Classes</td>
<td>38.00</td>
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<tr>
<td>Report Writing</td>
<td>12.00</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>
</tr>
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<tbody>
<tr>
<td>GEOLOGY PRACTICAL REPORTS</td>
<td>1.00</td>
<td>50.00</td>
<td>21 Feb 2005</td>
</tr>
<tr>
<td>SURVEY PRAC FIELD NOTES</td>
<td>1.00</td>
<td>50.00</td>
<td>21 Feb 2005</td>
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IMPORTANT ASSESSMENT INFORMATION

1 Attendance requirements:
   This course requires attendance at a residential school. 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.

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:
   Practical reports submitted after the due date will not be assessed.

4 Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade, students must complete at least x% of the practical and other activities at a satisfactory standard at the Residential School for the course, as stated in 2 above. Students who do not qualify for a Passing grade may, at the discretion of the Examiner, be assigned additional work to demonstrate to the Examiner that they have achieved the required standard. It is expected that such students will have gained at least 45% of the total marks available for all summative assessment items.

5 Method used to combine assessment results to attain final grade:
   As P is the only passing grade available for this course, all students who are qualified for a passing grade, under the requirements in 4 above, will be given a grade of P. Other students will be given either a Failing grade or an Incomplete grade.

6 Examination information:
   There is no examination in this course.

7 Examination period when Deferred/Supplementary examinations will be held:
   Not applicable.

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 the temporary grade: IM (Incomplete - Make up). An IM 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).