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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<td>SVY</td>
<td>2905</td>
<td>14561</td>
<td>2, 2002</td>
<td>ONC</td>
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Academic Group: FOENS
Academic Org: FOES05
HECS Band: 2
ASCED Code: 031100

STAFFING
Examiner: Shane Simmons
Moderator: Kevin McDougall

PRE-REQUISITES
Co-requisite: SVY 1101

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 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:

- identify the engineering significance of common geological structures and discuss the implication of weathering and landform development;
- identify a range of minerals and rocks and apply their properties to resolve engineering examples and problems;
check the collimation of an automatic level and complete a closed level traverse;
calculate coordinates and areas from survey data measured in a horizontal plane;
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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<tr>
<td>1. Geology Field Excursion</td>
<td>30.00</td>
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<tr>
<td>2. Report on Geology Field Excursion</td>
<td>10.00</td>
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<tr>
<td>3. Surveying Practical Work and Data Reduction</td>
<td>60.00</td>
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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</td>
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<tr>
<td>Report Writing</td>
<td>12</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks Out of</th>
<th>Wtg(%)</th>
<th>Required</th>
<th>Due Date</th>
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<tr>
<td>GEOLOGY FIELD EXCURSION REPORT</td>
<td>500.00</td>
<td>50.00</td>
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<td>SURVEY PRAC FIELD NOTES</td>
<td>500.00</td>
<td>50.00</td>
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NOTES:
1. Students will be advised of the due date when each assessment item is issued.
2. Students will be advised of the due date when each assessment item is issued.

OTHER REQUIREMENTS

1. Attendance at a minimum of 80% of practical and/or residential school sessions is compulsory for a passing grade to be awarded in this course.
2. The only final grades awarded in this course are Pass (P) or Fail (F) grades.
3. To receive a passing grade in this course a student must normally achieve at least 45% in each of the assessments and at least 50% of the available marks for the course.
4. A minimum standard of communication skills must be demonstrated in order for a passing grade to be achieved.
5. The due date for an assignment is the date by which a student must submit the assignment to the USQ. The onus is on the student to provide proof of the submit date, if requested by the Examiner.
6. Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.
7 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.

8 If students submit assignments after the due date without prior approval then a penalty of up to 20% of the total marks for the assignment will apply for each working day late.

9 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.

10 The Faculty of Engineering and Surveying will NOT accept submission of hand written or typed assignments by facsimile, e-mail or computer diskette. Students in remote locations who do not have regular access to postal services may be given special consideration.

11 The final grades for students will be assigned on the basis of the aggregate of the marks obtained for each of the assessments in the course.

12 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.

13 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; IDSM (Incomplete Deferred Examination and Make-up).