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This version of the course profile is dated as per the page footer. It is possible that circumstances may change the way this course runs. Initially it is intended to be

Any changes to the above assessment details will be notified in class and on the class Moodle web site.

Assessment tasks and feedback completed are required before the census date (27<sup>th</sup> June). In this course they are the Moodle based computer lab tasks weeks 1 to 4 and the mid-term test.

The final grade for this course will normally be based on the sum of the scores from each of the assessment tasks. However, in 2021 mid-session test plus final exam) is less than 28 out of 70 then the computer lab and field practical/assignment marks will not contribute to the stud .

The formal exam scripts will not be returned, but students are welcome to visit the course coordinator after exams to discuss . Students who perform poorly in the mid-session test are recommended to discuss progress with the lecturer during the semester.

Further details of assessment and exam rooms will be given in classes, if in doubt contact the lecturer.

Supplementary Examinations for Term 2 2021 will be held on Monday 6<sup>th</sup> Friday 10<sup>th</sup> September (inclusive) should you be required to sit one. You are required to be available during these dates. Please do not to make any personal or travel arrangements during this period.

Penalties for late submissions/completion: late work will be penalised at the rate of 10% per day after the due time and date have expired. If something prevents you from performing an assessment task (illness, etc.), complete a UNSW

For information regarding the process of requesting extensions and applying for special consideration read: <a href="https://student.unsw.edu.au/special-consideration">https://student.unsw.edu.au/special-consideration</a>

Assessment Criteria for: Field Practical Assignments

Two surveying practicals worth 5 marks each and a bushwalk worth 2 marks.

Marking scheme:

OK: Submitted a report on time, with plagiarism statement, which presented your results.

Better: as above, plus the report included evidence of independent checks of the calculations and is well written

Best: as above, plus a plan of the surveys and the report included thoughtful comments and discussion of the possible error
sources involved, how the survey could be improved if a similar task was done in future, and any other interesting aspects of the

task.

Penalties: For each day late (or part thereof) lose 1 mark. If a student participates in the field work but does not make a significant contribution to the report then that student gets the mark for the field component only.

Feedback: Will be given verbally by the course coordinator in a lab class soon after the exercise has been submitted.

Objectives and Learning outcomes: The practical exercises form an important part of the subject. A good deal of time and care has gone into the organisation of these classes to ensure that you get the maximum benefit. It is important that each studen

the exam. The test environment will be similar to the mid-term test. Further details will be given and discussed in class about the type of questions that might be in the exams and which parts (topics and expected outcomes) of the course are related to the exam. The exams are set by the course convenor and reviewed by another staff member of the school.

Marking: Max 45 marks.

The marking criteria will place a strong emphasis on the ability to use CAD. There will also be some questions on surveying computations that involve creative problem solving.

Marks are awarded for successful completion of each component of each question.

with included marking scheme.

Penalties: Cheating in the exam will be dealt with by the usual UNSN procedures.

Feedback: Each student will be given individual and detailed feedback on their exam paper soon after the exam has been

Former students have asked me to keep the course profile as short as possible, others want details. However, UNSW does require detailed discussions of educational aspects. Be assured that personally the course convenor and the other lecturers do treat the educational aspects as very important and spend considerable effort designing and improving the course. So in order to keep this document short, the aims objectives goals expectations and outcomes of the various class topics and assessment tasks will be discussed in class and/or within the individual documents for the assignments, lecture notes etc. An advantage of our small class enrolment is that each individual student can have many one to one discussions with the course convenor in his el of

Feedback from the students via the myExperience process. In previous years the ratings of all questions were very high, well above School and Faculty averages. The written comments were all very positive and pleasing. There were not many suggestions for improvements though, in 2020, there were some comments about the challenges of studying fully online without students to help learn and motivate.

## **TEACHING STRATEGIES**

In 2021 two lecturers are involved. The weekly teaching will include a 2 hour lecture, a 1 hour lecture or lab, and 3 hours of guided / instructed practice online. There is a long history of teaching the computations and the CAD topics in our school.

We encourage students to think and try to solve the problems themselves and avoid the act of simply reading a solution. Reading a solution, without attempting your own solution first, can lead you into a false confidence.

A textbook has been written by the course coordinator specifically for this course and is available for free, in pdf format on the class Moodle site.

We will use the BBOU recording system in this course. The recordings of lectures are not intended to be a substitute for class attendance but may be useful for students who cannot avoid missing a class and for those who attend the class but want to rehear part of it to aid their understanding. Of course, the recorded files are copyright and are not to be distributed beyond the enrolled students in the class. UNSW does not guarantee that the recording system will correctly record every lecture.

The course coordinator will also attend all computer laboratory and field classes. Some of the lectures will include discussions interspersed with traditional PowerPoint based lecturing. Generally, pdf files of the lecture slides will be available on the class web site after the lectures. Sometimes we like to change the content slightly during the lecture in response to student learning at the time. Sometimes questions are asked in the lecture to promote student involvement in the learning in these cases if the pdf files were available before the le environment before printing files onto paper.

A significant effort is being made to improve the CAD part of the course. Each year we change the contents and teaching m

Suggested Learning Methods

This is a practical course, the more practice and experience you get the better you will understand the topic and the faster you

2. By the end of this course students should be able to produce surveying, road design and subdivision drawings/ plans using Magnet Office software package including: and labs

Import and edit surveying data: manually booked and electronic downloads from Total Stations

Traverse data entry, reduction and adjustment

Draw detail survey plans with contours using DTM/TIN methods

Perform surveying plan editing and plotting including annotation

Subdivision calculations and prepare subdivision plans

Road alignment, cross sections extraction and level book data entry

Perform basic road design principles including template design, and long and cross section plotting.

I/We declare that this assessment item is my/our own work, except where acknowledged, and has not been submitted for academic credit elsewhere, and acknowledge that the assessor of this item may, for the purpose of assessing this item:
Reproduce this assessment item and provide a copy to another member of the University; and/or,
Communicate a copy of this assessment item to a plagiarism checking service (which may then retain a copy of the assessment item on its database for the purpose of future plagiarism checking).
I certify that I have read and understood the University Rules in respect of Student Academic Misconduct.
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I certify that I have read and understood the University Rules in respect of Student Academic Misconduct.
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ADEMIC ADVICE

## For information about:

Notes on assessments and plagiarism,

School policy on Supplementary exams,

Special Considerations: student.unsw.edu.au/special-consideration;

General and Program-specific questions: The Nucleus: Student Hub

Year Managers and Grievance Officer of Teaching and Learning Committee, and

SURVSOC and ŒVSOC.

Refer to Academic Advice on the School website available at:

https://www.engineering.unsw.edu.au/civil-engineering/student-resources/policies-procedures-and-forms/academic-advice

## **SUMMARY**

## Dear Student,

If you have read all the way to here, then you have done well. I apologise for making it such a long document. So here is a summary. It is a good course. It is worthwhile to put considerable time and effort into learning this course. If you do well in this course then, in your future career, your boss and your dients will be able to rely on your results. So read the first page, attend all classes, and do the exercises. I will be with you in lectures, in the computer lab, in the field, by email, and you can visit my office for help. Let us get on with the learning . Bruce.

Appendix A: Engineers Australia (EA) Competencies