

6 hours per week

2 hrs Tuesday, 12 2pm

On line via Moodle, BB Collaborate

1 hr Thu, 9am -10

3 hrs Thursday, 11 - 1pm

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Dr Bruce Harvey

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This version of the course profile is dated 8/05/2020 7:38 AM. It is possible that circumstances may change the way this course runs. Initially it is intended to be fully on line with on line assessment. However, if on campus da25 842 r.h10-1n5(o)3ssssessmeo e

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GMAT2500 - Torm 2, 2020 - Course Profile version 8/05/20, page	2

Assessment tasks and feedback completed are required before the census date (28th June). In this course they are the Moodle based computer lab tasks weeks 1 to 4.

The final grade for this course will normally be based on the sum of the scores from each of the assessment tasks. However, in 2020 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 2020 will be held on Monday 7th Friday 11th 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.

If something prevents you from performing an assessment task (illness, etc.), complete a UNS/V

	/completion: For information regarding the process of requesting extensions and applying for
special consideration read:	

Assessment Oriteria for:

Two assignments worth 6 marks each. Based on the instructions for fieldwork practicals but with data supplied by course coordinator using previous students observations.

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 i22(ns)-ece of is above, plus

Students who score very low marks are usually poorly prepared. They have not done the lab questions or have simply read the textbook, lecture slides or worked solutions. The test does not require extensive memory skills all the equations are given in the paper.

Penalties: Cheating in the test will be dealt with by the usual UNSW procedures. There is no need to cheat, instead prepare by doing the lab exercises and asking for help when you need it.

Feedback: After each test the marks obtained by each student will be available in Moodle. Each student will be given individual and detailed feedback on their exam paper soon after the exam has been marked by visiting the office of the course convenor.

Objectives and Learning outcomes: Primarily we test whether you can do survey computations yourself in exam conditions. An important learning outcome is to be able to reliably check your calculations, so you know they are correct and not just hope they are correct. Students should be able to solve the following calculation problems using a variety of approaches and computing resources including manual calculation, calculators, spreadsheets (MSExcel or open source equivalents): Bearing and Distance, Coordinates; Intersection and Trilateration; Resection; Traverse Adjustment Calculations; and Missing Data Problems. Also the test links to attributes: an in-depth engagement with relevant disciplinary knowledge; and the capacity for analytical and critical thinking.

Assessment Criteria for:

Comments: The computer lab tasks in this course will be delivered, managed and assessed via Moodle quizzes and auditing. Using Moodle to administer the tasks will enable students to see their progress and to work on the tasks at a pace that suits them. The requirements for lab work are given in the Moodle quizzes and assistance is available in the textbook files. Students are urged to manage their workload and make regular submissions during session. It is possible for students to do the computer lab tasks at home.

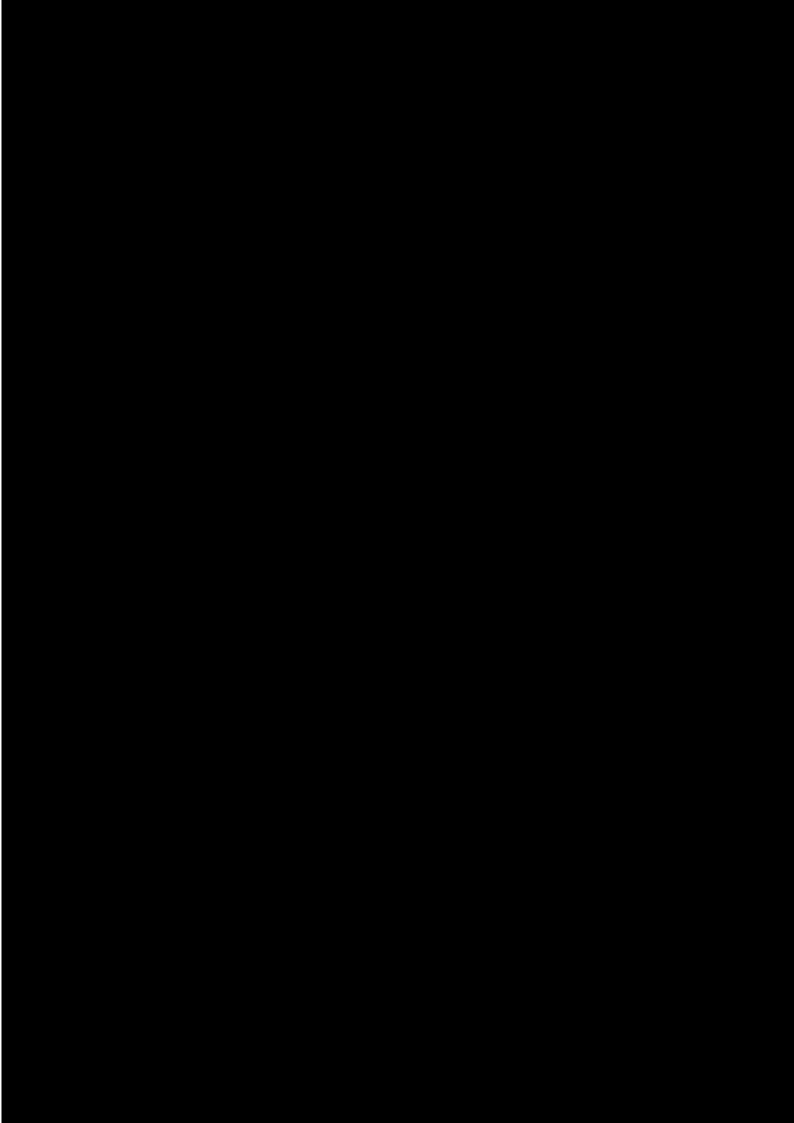
Marking: Max 18 marks. The marks for each task are included in the quiz questions.

There are two types of lab tasks in this course. The survey computations topics have 6 weekly quizzes of about 5 questions worth a total one mark each quiz. Students are allowed multiple attempts at these questions. The mark for each individual question is shown in the question. They are mostly multiple choice answer style, with some T/F questions.

The Survey CAD part of the course has tasks worth a total of 12 marks. These will be marked on the basis that if each aspect of the task is completed successfully full marks will be awarded, if some aspects of the task are not completed then a proportion of the marks will be awarded and recorded.

Students will be treated in this assessment component like professional surveyors. You will record whether you have completed the task yourself or not, and you may have multiple attempts at a task untillti2n(I)10(ed i)4(nt)1a4nd you may3(w)t

the exam. Large data sets are usually supplied to the students on computer files and CAD software is available and expected to be used in 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



This is an on campus course. Students are encouraged and expected to attend all classes. Students are encouraged to assist each
t are currently included in the course via Moodle are: lecture pdfs, computer lab quizzes, and textbook. CAD software may also be available for student home use.
The lecture slides are available for download as pdf files at the course website: Monitor the site during session because it will be updated regularly. The website material is only for use by students enrolled in this course.
A text book has been written specifically for this course by the main lecturer. It is available in pdf form on the class website. The contents of the book change as the software and instruments change, and as the lecturer learns better ways to communicate the material. If you want a paper copy you organise that yourself, but note that some pages may change during session.
Students are expected to have a calculator of the type that is allowed in UNSW exams. Students may use any calculator they wish in this course, however in examinations they may not use pre-programmed calculators with, for example, close or resection programs. A computer based Calculator application program specially written for surveying calculations will be provided to students in our lab and on the class Moodle computer lab. We will use MS Excel spreadsheets in the lab; students who do not have that software on their home computers will be advised on how to get free open source equivalent software and how to use it. We will use CAD software that is installed in our labs. Magnet Office CAD software is too expensive for most students to buy.
Many software packages including Magnet Office can be accessed through in a web browser (MacOSor Windows). No VPN or License is required. Need fast Internet for this method
Alternatively, to run MO on your computer without going through the aaa and a browser you can install MO on your computer. This install only needs to be done once. If you want to install a local copy (Windows only), MO5.1 can be downloaded via the link (Zip file, 1.4GB). To use MO from home, an Internet connection
and UNSW VPN are required. Follow the "Installing the UNSW VPN Software" guide on the MyIT page: . The VPN you need to connect to is
vpn.unsw.edu.au/feng_adhoc for using MO5.1 rather than vpn.unsw.edu.au. [You can connect to vpn.unsw.edu.au to use UNSW IT resources but not MO5.1.] Start MO, select Network license, server:

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).
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or information about: Notes on assessments and plagiarism, School policy on Supplementary exams, Special Considerations: General and Program-specific questions: Year Managers and Grievance Officer of Teaching and Learning Committee, and
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Dear Student,