



## COURSE DETAILS

<b>Contact hours</b>	6 hours per week	
<b>Classes</b>	Tuesday 4 - 6 pm	Online – Moodle link to BBCU
	Thursday 11 – 1 pm	Online – Moodle link to BBCU
	Thursday 2 – 4 pm	Room CE 201 or online BBCU
<b>Course Coordinator and Lecturer</b>	Bruce Harvey (BRH) email: <a href="mailto:b.harvey@unsw.edu.au">b.harvey@unsw.edu.au</a> office: CE207	phone: (02) 9065 6706 (MS Teams)
<b>Other Lecturers</b>	Cameron Miles (CM), Sandra Hoffmann (SH), Adrian Barden (AB)	

## INFORMATION ABOUT THE COURSE

The mode of delivery of the course in T3 2020 might change and this course profile will be updated if necessary. The current plans are:

The lectures will all be conducted via Blackboard Collaborate Ultra (BBCU) and can be accessed from the class Moodle site. The lectures will be recorded and available for download, though live participation is preferred. If some students wish to attend campus later in the term and sit in a room while the lecturer presents the lecture on BBCU then that might be possible.

The lab classes will be conducted via BBCU. After week 6 there will be a choice for students. Some students may choose to attend CE201 for the labs while other students participate in a BBCU at the same time – the BBCU will be run from CE201 for those classes.

Cadastral Surveying and Land Law looks at combining legal decisions with the practical side of positioning Land Title boundaries. Calculation methods learnt in Survey Computations courses (GMAT1110 and GMAT2500) will be used.

**COURSE PROGRAM TERM 3, 2020**

Some topics may change dates depending on lecturer availability. (Lecturer named below)

Week	Tue Lec 4-6pm Topic	Thu Lecture 11am-1pm Topic	Thu Lab 2-4pm
1 15&17 Sep	Introduction to Course. Interpreting a Cadastral Plan of Survey (DP) BRH	Intro to Cadastral Surveying and the Legal System of NSW. Preparation of manual & electronic field notes for Cadastral Surveys. CM	Reading a Plan of Survey. BRH
2 22&24 Sep	Torrens and Old System Land Titles in NSW. Estates in land. CM	Investigating Titles and Organising Search. CM	Computer lab exercises BRH & CM
3 29&2 Oct	Boundary Re-location & Identification Surveys. Identification Reports and Calculations CM	Boundaries - General and Fixed, Urban and Rural Boundaries. CM	Ident Survey ass <sup>t</sup> searching and preparation BRH & CM
4 6&8 Oct	Natural Boundaries and Related Survey Practice. SH	Interests in land: Easements & Restrictions. Preparation of Draft Documents - Sec 88b, Covenants and OS Descriptions. CM	<b>Mid-term test</b>
5 13&15 Oct	Cadastral Problems. Practical analysis of Cadastral Problems. Urban Surveys SH	Strata and Community Titles. Preparation & Calculation of Strata Plan (part 1). AB	Lab exercises BRH & SH
6 7 27&29 Oct	No class. Ident Survey fieldwork Road	No class. Ident Survey fieldwork	No class

Students are encouraged to bring laptops (or tablets or smart phones) to those classes not held in our computer lab (CE201 or 611) so that they can view the class Moodle site to access relevant materials and tasks. Students unable to do so should discuss this with the course coordinator.

Recommended approaches to learning are:

<b>Private Study</b>	<ul style="list-style-type: none"> <li>Review lecture material</li> <li>Do set problems and assignments</li> <li>Reflect on class problems and assignments</li> <li>Download materials from Moodle</li> <li>Keep up with notices and find out marks via Moodle</li> </ul> <p>For each hour of contact it is expected that you will put in at least 1.5 hours of private study.</p>
<b>Lectures</b>	<ul style="list-style-type: none"> <li>Find out what you must learn</li> <li>See methods that are not in the reference books</li> <li>Follow worked examples</li> <li>Hear announcements on course changes</li> </ul>



those used on the floor plan to define the lots. The connections must be sufficient to establish that any lot boundaries are along or within the parcel boundaries. Connections are not required on the location plan if the lot boundaries are coincident with the parcel boundary. In this instance a note should be added to the relevant boundary; All connections must be perpendicular from specific points on a structure or prolongations of the face of the structure; The identity of any other structural feature used on the floor plan to define lots by reference to its nature and material of its construction; The identities of the adjoining lands; If an encroachment exists sufficient information to indicate the extent and nature of the encroachment.

Details of Plan Preparation for the **Floor Plan**: Stratum statements for those parts of the lots which do not have structural cover and or a structural base to define their horizontal boundaries (ie upper and lower limits); The lot number for each lot or part lot. Part lots must be identified as such. Lot numbering must be consecutive and commence with lot 1; An area for each lot or part lot. Part lot areas should be shown in brackets and a total area must be shown within or relevant to the most significant part of the lot. Thick lines for structural boundaries. Thin lines with sufficient connections from walls and other structural features to define those lines. The plan may include a statement indicating the areas are approximate.; The site and description of all easements which affect the lots and are to be created upon registration of the plan; Separate floors of the building must be shown from the lowest level to the highest level; notations to clearly identify any encroachment that is designated for use with a lot; Show all structures on a lot that are outside a building and within 1 metre of the boundary of the lot and include notations to clearly identify whether each such structure is common property or part of the lot. This is not required for fencing within the meaning of the Dividing Fences Act 1991; Any other notes which indicate items which are within the air space of a lot are to form common property and not part of the lot. For example "The hot water service within the courtyard of lot 1 is common property and not part of the lot." See Lodgement Rules Schedules 10 to 14 for full requirements.

*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

work. Cheating in the lab tasks will be dealt with by the usual UNSW procedures. There is no need to cheat, instead prepare by doing the lab exercises and

instrument boxes immediately after removing/replacing the instrument. Carrying instrument on tripods will not be tolerated in this School. Do not force any parts to move, ensure clamps that lock the instrument to the tripod are set and do not over tighten clamps. No equipment is to be left unattended in the field at any time.

### **IN THE PUBLIC EYE**

It is hoped that students taking part in surveying practicals on or off the campus will create a favourable impression on the public and fellow students – and **so behave in a professional manner**. The field classes give you an opportunity to experience practical problems in a learning environment and should be a welcome break from lectures. It is hoped you find them enjoyable as well as instructive.

### **SUBMISSION OF REPORTS ON PRACTICAL WORK**

**Time:** Reports may be submitted at any time prior to the due date. **Late submissions will not be marked**, unless accompanied by an appropriate reason. Reports should be submitted to the lecturer unless otherwise advised by the lecturer.

**Contents of Reports:** Your report should have a front/title page, a summary of results page and then the rest of the report including computations and plans. Reports must contain original field notes or a photocopy of the originals, but not rewritten field notes. The requirements for each practical will be discussed at the briefings before the practicals, if in doubt ask the supervisor. The front cover of all submissions should include: Course number and name, your name and the title of exercise

**Field Notes:** On the first page of your field notes for a particular exercise the following information should be given: Title of Exercise, Date, your name and others present in the group, instrument make and number if the School's equipment is used.

Field notes should be neatly written, not overcrowded and pencils are recommended. Use diagrammatic and tabular form where required, drawing neat sketches or diagrams where applicable.

Appendix A: Engineers Australia (EA) Competencies

Stage 1 Competencies for Professional Engineers

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	PE1.1 Comprehensive theory based understanding of underpinning fundamentals
	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	PE1.3 In depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering design ethics