



Course Outline

GEOS2131

Field Methods and Mapping

School of BEES

Faculty of Science

T3, 2022

2.3 Course learning outcomes (CLO)

At the successful completion of this course you (the student) should be able to:

1. Undertake geological field mapping to collect data in an efficient and safe manner
2. Identify and describe basic sedimentary and volcanic rocks, and geological structures in the field
3. Accurately measure the orientation of geological features using a geological compass
4. Interpret field data and observations to infer stratigraphy over a 15km² mapping area
5. Construct a geological map and cross-section based upon field data and observations
6. Communicate results and ideas in both oral format and as a formal geological report
7. Work effectively as part of a group to conduct fieldwork, interpret data and present ideas.

3. Strategies and approaches to learning

3.1 Learning and teaching activities

Mapping is a key skill for the natural sciences. It is practiced at all levels and at all scales, and not just in geology. This course is a practical course with face-to-face learning, augmented by readings. There are two main practical elements: 1) learning to use stereographic airphotos for geological mapping – this is achieved in the lab; 2) undertake geological mapping in the field, outdoors, using available techniques and technologies, but using your feet to cover the ground and your eyes to make observations. Lectures introduce you to basic concepts required to do the mapping and to understand geology as applies to mapping skills. The main assessment tasks relate to developing an understanding of stratigraphy, regional variations, and complications brought about by changes across space and through deformation – real-life geological situations.

3.2 Expectations of students

Students must attend 100% laboratory periods during the term.

Attendance to the week-long geological field mapping trip during week 6 is compulsory. The field trip includes camping in the outdoors, and walking/hiking through pastoral landscapes.

4. Course schedule and structure

This course consists of 18 hours of class lecture contact hours, as well as 27 hours compulsory laboratory contact, and the 6 day field mapping trip in week 6. Students are expected to attend all laboratory sessions. There is no final exam.

Week	Date	LECTURES	Date	Lab
1	14.09	Why Mapping and intro to course	16.09	Stratigraphy and fence diagrams, Pre-Rouchel assignment and rock types at Rouchel

September

Normal school penalties apply for late submission

The rule is 10% (of the assignment mark) for each day late – up to a maximum of 7 days after which assignment will receive 0. Consideration for relief from this rule can be given only for documented reasons (and student should submit documentation through Student Central).

5.4. Feedback on assessment

See field trip guide for full details on assessment feedback

Include a strategy for giving feedback to students on their assessment preparation, activities and/or marked submissions for each task. Tell students when, where and how they will receive feedback for this assessment.

More information is available on the Teaching Gateway:

€ *Grading and Giving Feedback*
<http://teaching.unsw.edu.au/grading-assessment-feedback>

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8. Administrative matters

School information	<p>School website: http://www.bees.unsw.edu.au/</p> <p>School office – The Biosciences Student Office is where to go for administrative matters relating to BEES courses. It is located on the ground floor of the biological sciences building, room G27. BEESinfo@unsw.edu.au</p>
Occupational Health and Safety	<p>Information on relevant Occupational Health and Safety policies and can be found on the following website: http://www.bees.unsw.edu.au/health-and-safety</p> <p>UNSW OHS Home page: http://safety.unsw.edu.au/</p>
Equity and Diversity	<p>Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course Convenor prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equity and Diversity Unit (9385 4734 or http://www.studentequity.unsw.edu.au/).</p> <p>Issues to be discussed may include access to materials, signers or note-takers, the provision of services and additional exam and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made.</p>
Student complaint procedure	<p>http://student.unsw.edu.au/complaints</p> <p>School contact</p> <p>Dr Jes Sammut j.sammut@unsw.edu.au</p> <p>Faculty contact</p> <p>A/Prof Chris Tisdell, Associate Dean (Education) cct@unsw.edu.au, Tel: 9385 6792</p> <p>University contact</p> <p>Student Conduct and Appeals Officer (SCAO) within the Office of the Pro-Vice-Chancellor (Students) and Registrar. Telephone 02 9385 8515, email studentcomplaints@unsw.edu.au</p>

9. Additional support for students