## 1. Staff

| Position | Name | Email | Consultation times and locations | Contact Details |
|---|---|---|---|---|
| Course Convenor / Lecturer | A/Prof John Daniels | j.daniels@unsw.edu.au | School of Materials Science and Engineering (Building E10), by appointment | Phone: 9385 5607 |
| Lecturer | Dr Bernd Gludovatz | b.gludovatz@unsw.edu.au | Ainsworth Building (Building J17), by appointment | Phone: 9385 4006 |
| Laboratory Administrator | Dr Caitlin Healy | caitlin.healy@unsw.edu.au | School of Materials Science and Engineering (Building E10), by appointment | Phone: 9385 6038 |
| Group Project | Dr Ben Pace | b.pace@unsw.edu.au | School of Materials Science and Engineering (Building E10), by appointment | Phone: 9385 4837 |

## 2. Course information

Units of credit: 6

## 2.2 Course aims

To provide an understanding of fundamental structure-processing-property relationships of materials. Use this knowledge to conduct materials selection tasks.

## 2.3 Course learning outcomes (CLO)

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

1. Describe the relationships between material structures and processing to the final properties
2. Select appropriate materials for engineering design applications
3. Apply materials testing methods to investigate and quantify material properties

## 2.4 Relationship betw

## 3.2 Expectations of students

Students should read through lecture notes and lab sheets/tutorials prior to class

During class, students are expected to engage actively in class discussions

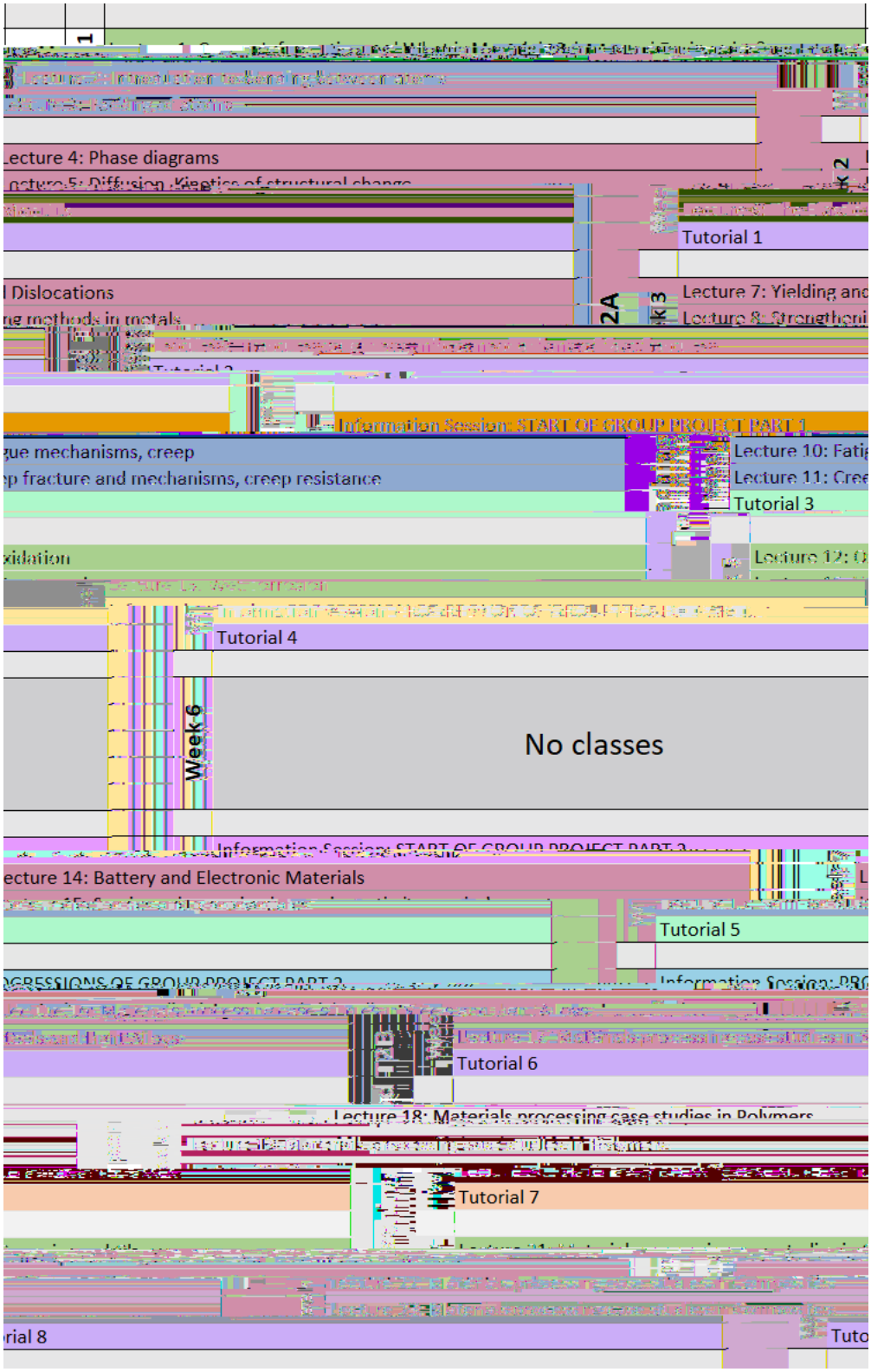
Students should work through lecture, tutorial and textbook questions and work through the online tutorials

To ensure you achieve the maximum grade possible students should complete all assessment tasks and submit them on time.

Students are expected to participate in online discussions through the Moodle page

# 4. Course schedule and structure

This course consists of 41 hours of class contact hours. You are expected to take an additional 109 hours of non-class contact hours to complete assessments, readings and exam preparation.



# 5. Assessment

## 5.1 Assessment tasks

| Assessment task | Description | Weight | Due date |
|---|---|---|---|
| **Online tutorials:** | 5 Online quizzes. | Total: 10%, 2% each quiz | See Moodle for details |
| **Laboratory reports:** | There will be 5 laboratories throughout the course on:<br>Tensile testing<br>Microstructures of Materials<br>Fracture<br>Batteries | | |

## 5.2

detected in your work.

Further information about academic integrity and **plagiarism** can be located at:

The *Current Students* site https://student.unsw.edu.au/plagiarism**,** and

The *ELISE* training site http://subjectguides.library.unsw.edu.au/elise/presenting

The *Conduct and Integrity Unit* pi866 0 594.96 842.04 reW*nBT/F1 9.35 6T*nBT8.34 Tm0 g0 G[ )]TJETQ0.000008866 0



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