



Course Outline

MATS6105

Chemical Properties of Materials

Materials Science and Engineering

Science

T3, 2022

5. Assessment

5.1 Assessment tasks

Assessment task	Description	Weight	Due date
Individual assignment:	Three short ongoing assignments on the following topics: 1: Corrosion (Part 1=5%, Part 2=5%) 2: Electrochemistry of materials (20%)	30%	Week 3 Week 5 Week 10

Corrosion Labs:

This will be an online lab and the students will be given set of results to be used for the

- 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 coordinator prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equity and Diversity Unit: <https://student.unsw.edu.au/disability>. Early notification is essential to enable any necessary adjustments to be made.
- Submit hardcopy of your assignments and lab reports in the Assignment Box next to the MSE School Office (Rm 137) by the due date. Also submit electronic copy to Moodle as proof of submission. Late submission without appropriate documentation will receive a penalty of 10% per day late. Work that is more than 10 days late will not be accepted and will receive zero mark.

5.4. Feedback on assessment

Assignments and group project: Feedback will be given two weeks after submission of the assignment and take the form of the mark for the assignment, overall comments on how the class performed, any common areas that were not answered correctly. Additionally, personal feedback and how each student performed may be given.

Lab reports: Students will receive their mark and individualised feedback on the areas they excelled at and which areas of the reports that were not answered correctly. Feedback will be provided through Moodle, two weeks after submission.

Midsession exams: Students will receive their marked exams indicating what questions were answered correctly and incorrectly. Overall comments and worked solutions may be provided to the class.

7. Readings and resources

Textbooks

- D.A. Jones, Principles and Prevention of Corrosion, 2nd Ed. Prentice Hall
- H. Wendt and G. Kreysa, Electrochemical Engineering, Springer, (1999).

References

- M.F. Ashby and D.R. Jones, *Engineering Materials*, (Pergamon, 1980), Ch. 25 and 26, p223-235.
- M.G. Fontana *Corrosion Engineering*, McGraw H008864.96 8J