



# Source Outline

Term 1 2020

**MMAN3400**

**MECHANICS OF SOLIDS 2**











<b>Week</b>	<b>Topic</b>	<b>Suggested Readings</b>	<b>Ref &amp; Questions</b>	<b>Problem Solving/Lab/Quiz</b>
8	Principle of virtual work	Hibbeler: Ch 14.1 to 14.3	Hibbeler: 14-32, 14- 33,14-36,14-40	Problem Solving Class
8	Principle of virtual work	Hibbeler: Ch 14.3, 14.5	Hibbeler: 14-72, 14-76, 14-77, 14-86	Problem Solving Class
9	Fracture Mechanics	Moodle Notes	Moodle Questions	Problem Solving Class
9	Fracture Mechanics	Moodle Notes	Moodle Questions	Problem Solving Class
10	Revision			Problem Solving Class

All the lecture notes and in-class problems along with the relevant information about laboratory experiments will be available on Moodle.





## Assignments

The Lab assignments must be submitted electronically through a drop box in Moodle by mid-night, Friday in the weeks indicated in the assessment overview.

### *Presentation*

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work and should be treated with due respect. Presenting results clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

### *Submission*

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of 20 percent (20%) of the maximum mark possible for that assessment item, per calendar day.

The late penalty is applied per calendar day (including weekends and public holidays) that the assessment is overdue. There is no pro-rata of the late penalty for submissions made part way through a day.

be awarded for that assessment item.

For some assessment items, a late penalty may not be appropriate. These are clearly indicated in the course outline, and such assessments receive a mark of zero if not completed by the specified date. Examples include:

- a. Weekly online tests or laboratory work worth a small proportion of the subject mark, or
- b. Online quizzes where answers are released to students on completion, or
- c. Professional assessment tasks, where the intention is to create an authentic assessment that has an absolute submission date, or
- d. Pass/Fail assessment tasks.

### *Marking*

Marking guidelines for assignment submissions will be provided at the same time as assignment details to assist with meeting assessable requirements. Submissions will be marked according to the marking guidelines provided.

## Examinations

There will be one two-hour final examination at the end of the term, based on the material covered in Lectures fBT4There (de)3(d.)JTJETQ48 that fBT4 submissi 0 0 1 72.02 reW\* nBThe

Final examinations for each course are held during the University examination periods: February for Summer Term, May for T1, August for T2, and November/December for T3.

Please visit myUNSW for Provisional Examination timetable publish dates.

For further information on exams, please see the [Exams](#) webpage.

### *Calculators*

You will need to provide your own calculator of a make and model approved by UNSW for the examinations. The list of approved calculators is available at [student.unsw.edu.au/exam-approved-calculators-and-computers](http://student.unsw.edu.au/exam-approved-calculators-and-computers)

It is your responsibility to ensure that your calculator is of an approved make and model, and [Engineering Student Support Services Centre](#)

into the examination room.

### **Special consideration and supplementary assessment**

If you have experienced an illness or misadventure beyond your control that will interfere with your assessment performance, you are eligible to apply for Special Consideration prior to submitting an assessment or sitting an exam.

**Please note** that UNSW now has a [Fit to Sit / Submit rule](#), which means that if you sit an exam or submit a piece of assessment, you are declaring yourself fit enough to do so and cannot later apply for Special Consideration.

For details of applying for Special Consideration and conditions for the award of supplementary assessment, please see the [Special Consideration page](#).

## **7. Expected ~~resources for students~~**

### **Recommended Textbook and Notes**

- (1) 10<sup>th</sup> Ed. In SI Units, 2019, Pearson.
- (2) Notes on the Membrane Stresses in Thin Axisymmetric Shells see Moodle.
- (3) Notes on the Mechanics of Fracture and Fatigue see Moodle.
- (4) Supplementary in-class problems some of which are based on past exam questions see Moodle.

### **Suggested Readings**

There are numerous valuable resources available on the webw -30003631MCID 9/q0.000008871 0 595.32

UNSW Library website: <https://www.library.unsw.edu.au/>

Moodle: <https://moodle.telt.unsw.edu.au/login/index.php>

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## 10. Administrative matters and links

All students are expected to read and be familiar with UNSW guidelines and policies. In particular, students should be familiar with the following:

- [Attendance](#)
- [UNSW Email Address](#)
- [Special Consideration](#)
- [Exams](#)
- [Approved Calculators](#)
- [Academic Honesty and Plagiarism](#)
- [Equitable Learning Services](#)

# Competencies

## *Stage 1 Competencies for Professional Engineers*