Contents

2. Important links

ENGG2400 2019 T3 - Mechanics of Solids
Moodle
Lab Access
Computing Facilities
Student Resources
Course Outlines
Engineering Student Support Services Centre
Makerspace
UNSW Timetable
UNSW Handbook
UNSW Mechanical and Manufacturing Engineering

3. [illegible]

Credit points

This is a 6 unit-of-credit (UoC) course and involves 6-7 hours per week (h/w) of face-to-face contact.

The normal workload expectations of a student are approximately 25 hours per term for each UOC, including class contact hours, other learning activities, preparation and time spent on all assessable work.

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Day	Time	Location
Friday	2:00pm –	

Learning Outcome		EA Stage 1 Competencies
LC1.	Recognise the fundamentals of Solid Mechanics	PE1.1, 1.2
LC2.	Demonstrate the fundamentals of stresses and strains	PE1.3
LC3.	Identify and express the principles of Solid Mechanics in obtaining the solutions for applications in real life engineering problems	PE1.3
LC4.	Identify and express the principles of Solid Mechanics in obtaining the solutions for applications in real life engineering problems	PE1.3
LC5.	Create and Develop “engineers’ eyes”	PE2.1, 2.2, 2.3

4. Teaching strategies

This course will be delivered both in the classroom and online. Full participation in the class means that you will participate fully in both arenas. That is, you will be held accountable for all content, instructions, information, etc. that is delivered either in class or online. There will also be laboratory or practical exercises that you may have to complete during your self-study time.

Online: The online forum for participation in this class is the Moodle Platform. All official online interactions will take place or be linkedsel2C3rly an5(dppbe)13(r)-oexprcitsel 613(r)-oucm this cit(e)1

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5.

Week	Topic	Quiz	Assignment, Lab work or Block Test	Suggested Readings

6. Assessment

Assessment overview

Assessment task	Length	Weight	Learning outcomes assessed	Assessment criteria	Due date, time	Deadline for absolute fail	Marks returned
3 x Block Tests	45 mins each	27% (9 marks each)	1, 2, 3, 4				

Assessment Criteria

PSS Hand-ins

Students will get 1 mark in the first 15 minutes of class for each week that they show their demonstrators a complete and reasonable attempt at all hand in questions

An incomplete set of solutions, late arrival or unreasonable attempt will score 0.5 marks

If a student comes late to the PSS or leaves late, their demonstrator will only give them 0.5

If the student brings the PSS Hand-in a week late, they will receive a maximum of 0.5 marks

Zero marks will be awarded for work more than one week late

Block Tests and Final examination

Use the basic concepts such as Free-Body Diagrams (FBD) and Equations of Equilibrium (EoE)

Systematic approach to outline the steps for a problem and use the necessary fundamental concepts covered in the lectures and problem solving sessions.

Correctness of the solution with the aid of necessary diagrams/sketches and the use of appropriate units.

There are no supplementary block tests. If you miss the block test, you must apply for Special Consideration through the University

All special considerations lodged more than 48 hours after the test date will be rejected without exception

If Special Considerations are granted, the student will be given a calculated mark that is 80% of the mark calculated based on their performance in the other three block tests. For example, if you score 100% in the two block tests you attend, you would be given 80% for the Block Test you missed

Laboratory Reports

Interpretation of the experimental results for the required information described in the hand-out for each experiment

Understanding the relationship between the theory covered during the lectures to experimental results in the laboratory

Presentation of report in accordance with the MECHENG guidelines

Attendance and participation during the laboratory experiments.

Final examination

Use concepts taught throughout weeks 1-10

Systematic approach to outline the steps for a problem and use the neces0 1 90.024 179.66 Tm0 g0

Type of Assessment	Notes
Block tests 1-3	No supplementary
Weekly assessment	PSS one week late, 0.5 marks and Moodle, no late submissions
Laboratory	Reports submission via Microsoft Teams
Final Examination	Standard UNSW special consideration for supplementary

You must be available for all tests and examinations. 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

7. Expected resources for students

Recommended Textbooks:

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an honours thesis) even suspension from the university. The Student Misconduct Procedures are available here: