



MECH 9720

SOLAR THERMAL ENERGY DESIGN

I. Staff Contact Details

Contact details and consultation times for course convenor

Name: Dr Robert A Taylor
Office location: Ainsworth Building, 402 C
Tel: (02) 9385 5400

Consultation meetings available upon request via email:
Primary Course Email: unsw.mech.9720@gmail.com

Contact details and consultation times for additional lecturers/demonstrators/lab staff

Lead Demonstrator: Qiyuan Li - qiyuan.li@unsw.edu.au

(Note: Primary contact for all questions about course content is:
unsw.mech.9720@gmail.com)

Details

Credit Points:

This is a 6 unit-of-credit (UoC) course, and involves **3** hours per week (h/w) of face-to-face contact along with a one-off laboratory in the middle of the session.

The UNSW website states “The normal workload expectations of a student are approximately 25 hours per semester for each UoC, including class contact hours, other learning activities, preparation and time spent on all assessable work. Thus, for a full-time enrolled student, the normal workload, averaged across the 16 weeks of teaching, study and examination periods, is about 37.5 hours per week.”

This means that you should aim to spend about 9 h/w on this course. The additional time should be spent in making sure that you understand the lecture material, completing the set assignments, further reading, and revising for any examinations.

This course is not taught in parallel with any other course.

Contact Hours

	Day	Time	Location
Lectures	Wednesday	14:00 – 16:00	Science Theatre (K-F13-G09)
Demonstrations	Wednesday	16:00 – 17:00	Various Locations
Laboratory	After Week 4	1 hour, TBD	Solar Lab (J17-R01)

TECH9720

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 shown at 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 to obtain an “Approved” sticker for it from the School Office or the Engineering Student Centre prior to the examination. Calculators not bearing an “Approved” sticker will not be allowed into the examination room.

Special Consideration and Supplementary Assessment

For details of applying for special consideration and conditions for the award of supplementary assessment, see the School

a discussion forum
links to solar resources and other supplementary information

The discussion forum is intended for you to use with other students enrolled in this course. The course convenor and demonstrators will occasionally look at the forum, monitor the language used and take note of any frequently-asked questions, but may not respond to every question on the forum. If you want help from the convenor then direct contact through unsw.mech.9720@gmail.com or an office visit is preferred.

Recommended Internet sites

There are many websites giving lectures, papers and data on solar technology. Try searching for "solar thermal", "solar hot water", "CSP", etc. YouTube has many entertaining (and sometimes very informative) videos related to solar thermal energy. Some examples will be given during lecture.

Other Resources

If you wish to explore any of the lecture topics in more depth, then other resources are available and assistance may be obtained from the UNSW Library:
<http://info.library.unsw.edu.au/web/services/services.html>

7. Course Evaluation and Development

Feedback on the course is gathered periodically using various means, including the Course and Teaching Evaluation and Improvement (CATEI) process, informal discussion in the final class for the course, and the School's Student/Staff meetings. Your feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

In this course, recent improvements resulting from student feedback include online quizzes and resources, new laboratory facilities, and additional feedback on progress throughout the course.

8. Academic Integrity and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism: student.unsw.edu.au/plagiarism The Learning Centre assists students with understanding

academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow

Appendix A: Engineers Australia (EA) Professional Engineer Competency Standards

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	PE1.3 In-depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering practice
PE2: Engineering	