



# Course Outline

Semester 2 2018

**MECH4620**

**COMPUTATIONAL FLUID DYNAMICS**



# I. Staff contact d

## **Contact details and consultation times for course convenor**

Name: Dr Victoria Timchenko

Office Location: Room 401C, J17

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Email: [v.timchenko@unsw.edu.au](mailto:v.timchenko@unsw.edu.au)

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

Consultation times: Thursday 2-3pm

Communication preference: Email

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

Name: Dr Anthony Yuen

Office Location: Room 401, J17

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Place CFD in the context of a useful design tool for industry and a vital research tool for thermos-fluid research across many disciplines;  
Familiarize students with the basic steps and terminology associated with CFD. This includes

## 5. ~~Course schedule~~

Week	Lecturer	Topic	Work during laboratory session	Assignment Activity
1	VT			

## 6. Assessment

### **Assessment overview**

You will be assessed by way of 2 sets of tutorial-style

## **Assignments**

### *Tutorial-style problems*

The short assignments containing 2 sets of tutorial-style problems (T1 and T2) are listed in the Course Schedule. They will involve theoretical work and calculations. Assignments will be available on the Moodle website.

### *Group project*

The group project involves a complete CFD analysis, from the initial concept through to CAD, meshing, pre-





the examinations. The list of approved calculators is shown 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

Centre prior to  
allowed into the examination room.

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

The discussion forum is intended for you to use with other enrolled students. The course convenor and/or demonstrators will occasionally look at the forum, monitor any inappropriate content, and take note of any frequently-asked questions, but will only respond to questions on the forum at their discretion. If you want help from the convenor, then direct contact is preferred.

## **8. Course evaluation and development**

Feedback on the course is gathered periodically using various means, including the UNSW myExperience process, informal Student/Staff meetings. Your feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an

# Appendix A: Engineers Australia (EA) Competencies

## Stage 1 Competencies for Professional Engineers

	<b>Program Intended Learning Outcomes</b>
<b>PE1: Knowledge and Skill Base</b>	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
<b>PE2: Engineering Application Ability</b>	PE2.1 Application of established engineering methods to complex problem solving
	PE2.2 Fluent application of engineering techniques, tools and resources