Overview

This course will use Matlab as the primary computational engine for teaching the students to carry out fundamental computations as well as developing simulations through the use of object oriented concepts implemented in Matlab environment. The basic Matlab content consists of Data types, matrices, vectors, multidimensional arrays and standard Matlab scripting using programming constructs. Non language specific object oriented concepts will be explained to assist software development using tools such as Matlab. The latter part of Matlab will use the object oriented concepts learned to develop object oriented approaches using Matlab and will develop applications for fundamental optimization, differentiators, integrators and transforms. The student will also be taught software interfaces between Matlab and C++ for visualization of massive data in 1D, 2D and 3D plots, mesh and surface plots, image acquisition and manipulation as well as the development of animations.
Faculty
Faculty of Engineering

School
School of Mechanical and Manufacturing Engineering

Study Level
Undergraduate

Offering Terms
Term 3

Campus
Kensington

Delivery Mode
Fully on-site

Indicative contact hours
6

Timetable
Visit timetable website for details
Conditions for Enrolment

Prerequisite: COMP1917 or COMP1511 or DPST1091 or COMP1911
Course Outline

To access course outline, please visit:

MTRN2500 Course Outline
## Fees

<table>
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<tr>
<th>Category</th>
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<tr>
<td>Commonwealth Supported Students</td>
<td>$1191</td>
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<tr>
<td>Domestic Students</td>
<td>$5970</td>
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<tr>
<td>International Students</td>
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**DISCLAIMER**

Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the [fee website](#).

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions