**Course**

**Machine Learning and Data Mining**

**COMP9417**  |  **6 Units of Credit**

**Overview**

Machine learning (ML) is the algorithmic approach to learning from data. This course provides an introduction to core ideas and techniques in ML, covering theoretical foundations, algorithms, and practical methodology. Algorithms for supervised and unsupervised learning are covered, including regression, classification, neural networks, tree learning, kernel methods, clustering, dimensionality reduction, ensemble methods, and large-scale ML. Students will be given hands-on experience on applying ML algorithms to real problems and datasets.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
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<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Computer Science and Engineering</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
</tr>
<tr>
<td><strong>Offering Terms</strong></td>
<td>Term 2, Term 3</td>
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<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
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<tr>
<td><strong>Delivery Mode</strong></td>
<td>Fully on-site</td>
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<tr>
<td><strong>Indicative contact hours</strong></td>
<td>5</td>
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<tr>
<td><strong>Timetable</strong></td>
<td>Visit timetable website for details</td>
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</tbody>
</table>
Conditions for Enrolment

Prerequisite: COMP9020 and COMP9024
Course Outline

To access course outline, please visit:

COMP9417 Course Outline
**Fees**

**Commonwealth Supported Students**  $1170  
**Domestic Students**  $4350  
**International Students**  $5730

**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
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179