Design and Application of Materials in Science and Engineering

MATS1192

6 Units of Credit

The design of materials for applications in industry and society including, for example, metallurgical, electronic, medical, packaging and transport. Microstructure and structure-property relationships of the main types of engineering materials (metals, ceramics, polymers and composites); micromechanisms of elastic and plastic deformation; fracture mechanisms for ductile and brittle materials, phase equilibria of alloys; microstructural control and application to commercial engineering materials. Information retrieval. Communication skills. Plant visits. Introductory materials laboratories. Application of fundamental learning to problem-solving.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Science</th>
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<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Materials Science &amp; Engineering</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Undergraduate</td>
</tr>
<tr>
<td><strong>Offering Terms</strong></td>
<td>Term 1, Term 3</td>
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<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Partially online</td>
</tr>
<tr>
<td><strong>Indicative contact hours</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Timetable</strong></td>
<td>Visit timetable website for details</td>
</tr>
</tbody>
</table>
Exclusion Courses

MATS1101  6 UOC
Engineering Materials and Chemistry
Course Outline

To access course outline, please visit:

MATS1192 Course Outline
Fees

Commonwealth Supported Students  $1170
Domestic Students  $5760
International Students  $5760

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. Fees for courses delivered through UNSW Global are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

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