Overview

This course addresses the interlinked theme of engineering tissues and smart materials by learning from Nature's paradigms. The course goal is to use fundamentals of mechanics and strength of materials to understand the remarkable material and mechanical properties of biological materials. In addition, the course aims to develop the capacity to characterise, optimise and even create advanced functional materials using fundamental knowledge of strength of materials and by applying reverse engineering strategies for engineering of nature inspired materials. Mechanical properties inherent to specific manufacturing methods will be addressed as well as materials' different properties in in vivo and other environments. This course aims to provide students with a foundation, based on “nature’s design and optimisation” criteria for engineering tissues and smart materials, as well as to give students the opportunity to develop their engineering innovation capabilities through a class project.
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<th>Faculty of Engineering</th>
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<td><strong>School</strong></td>
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Course Outline

To access course outline, please visit:

BIOM9561 Course Outline
Fees

Commonwealth Supported Students  $1191
Domestic Students  $4470
International Students  $5910

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