Overview

Assumed Knowledge: MATS1101

To introduce students to the principles of public health engineering, water and wastewater treatment, water supply systems, wastewater disposal systems, stormwater systems, biosolids treatment and management, and water quality and contamination indicators. As such the subject includes water sanitation and health, water supply and sewage systems, design period and flow estimation for water supply and sewerage works, water supply systems - collection, storage, transmission, treatment and distribution works, sanitary sewerage systems - gravity sewers, pumping stations and rising mains, self cleansing and slime control, stormwater systems - design period and flow estimation, quality estimation, WSUD and BMP approaches, water quality standards and methods of analysis, Chemical reactions, ionic equilibria, buffering, pH, Water pollution criteria, BOD, COD, Toxicity, Eutrophication, Oxygen balance and DO S ag curve, Biology related water quality and treatment, Introduction to treatment, Physical unit processes - screening, sedimentation (discrete, flocculent, hindered and zone settling), filtration, chemical unit processes - coagulation and flocculation, optimum coagulant dose, disinfection, chlorination, fluoridation, softening, desalination, Integration of processes for practical water treatment plant design, Biological treatment processes - Aerobic and Anaerobic processes, Integration of processes for wastewater treatment plant design, Secondary treatment - trickling filters, activated sludge, nutrient removal systems, sludge characteristics and quantities, Sludge/Biosolids treatment and disposal, Tertiary and advanced wastewater treatment processes, and Effluent reuse.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Civil and Environmental Engineering</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Undergraduate</td>
</tr>
<tr>
<td><strong>Offering Terms</strong></td>
<td>Term 2</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Fully on-site</td>
</tr>
<tr>
<td><strong>Indicative contact hours</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Timetable</strong></td>
<td>Visit timetable website for details</td>
</tr>
</tbody>
</table>
Conditions for Enrolment

Prerequisite: ENGG2500 OR CVEN2501
Course Outline

To access course outline, please visit:

CVEN3502 Course Outline
Fees

Commonwealth Supported Students  $1191
Domestic Students  $5970
International Students  $5970

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
© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

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