# COURSE DETAIL

| WATER TREATMENT |
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| **Country**<br>South Africa |
| **Host Institution**<br>University of Cape Town |
| **Program(s)**<br>University of Cape Town |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Civil Engineering |
| **UCEAP Course Number**<br>105 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>WATER TREATMENT |
| **UCEAP Transcript Title**<br>WATER TREATMENT |
| **UCEAP Quarter Units**<br>4.00 |
| **UCEAP Semester Units**<br>2.70 |

**Course Description**
In this course, students study unit operations needed in a water treatment plant. The course is heavy on chemistry in order to understand alkalinity, acidity, chemical equilibrium, mass balance, titration curves, buffering, and pH of strong and weak acid and base systems. Students examine the South Africa water resources with high calcium, high alkalinity inland water, and low calcium, low alkalinity coastal water towards the end of the semester.

**Language(s) of Instruction**
English

**Host Institution Course Number**
CIV3046S

**Host Institution Course Title**
WATER TREATMENT

**Host Institution Course Details**

**Host Institution Campus**
Engineering

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Engineering

**Course Last Reviewed**

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