## Water and Wastewater Treatment (CEGE0022)

### Description
This module gives a brief overview of processes for municipal water and wastewater treatment. It includes coagulation-flocculation, sedimentation, rapid sand filtration, adsorption, ion exchange, membranes, dissolved air flotation, desinfection; and biological wastewater treatment such as activated sludge, trickling filters, and anaerobic digestion. Most of the lectures consist of theoretical background and application exercises. The module assessment consists of a written-exam (80%) and a laboratory report (20%). Laboratory report is usually done by a group of two students. A site visit to a treatment plant is usually arranged for Reading week, however, attendance is not compulsory.

### Learning Outcomes:
- To explain the aims of water and wastewater treatment
- To explain the importance of drinking water and discharge standards
- To identify and explain the main physical, chemical and biological processes for water and wastewater treatment
- To understand the main design criteria and operational parameters for water and wastewater treatment processes
- To determine the dimensions of basic treatment units

### Key information

<table>
<thead>
<tr>
<th>Year</th>
<th>2019/20</th>
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<tbody>
<tr>
<td>Credit value</td>
<td>15 (150 study hours)</td>
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<td>Delivery</td>
<td>UG L6, Campus-based</td>
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<td>Reading List</td>
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<tr>
<td>Tutor</td>
<td>Dr Luiza Campos</td>
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<td>Timetable</td>
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### Assessment

**Find out more**

For more information about the department, programmes, relevant open days and to browse other modules, visit [ucl.ac.uk](http://ucl.ac.uk)
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Key information
- Year: 2019/20
- Credit value: 15 (150 study hours)
- Delivery: PGT L7, Campus-based
- Reading List: View on UCL website
- Tutor: Dr Luiza Campos
- Term: Term 1
- Timetable: View on UCL website

Assessment
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