# COURSE DETAIL

| GEOTECHNICS 1 |
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| **Country**<br>United Kingdom - England |
| **Host Institution**<br>University of Manchester |
| **Program(s)**<br>University of Manchester |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Civil Engineering |
| **UCEAP Course Number**<br>155 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>GEOTECHNICS 1 |
| **UCEAP Transcript Title**<br>GEOTECHNICS 1 |
| **UCEAP Quarter Units**<br>4.00 |
| **UCEAP Semester Units**<br>2.70 |

**Course Description**

In this course, students learn to understand the basic background behind soil mechanics and geotechnical engineering and their importance and relevance in civil engineering; the importance of basic geology in civil engineering and learn about the three rock groups and origin of soils; classification of different type of soils; the principle of soil compaction and representing soil as a three-phase system; and the mechanics behind the flow of water through soils and to understand the concept of permeability of soils.

**Language(s) of Instruction**
English

**Host Institution Course Number**
CIVL10212

**Host Institution Course Title**
GEOTECHNICS 1

**Host Institution Course Details**
https://www.manchester.ac.uk/study/undergraduate/courses/2024/03343/beng-civil-...

**Host Institution Campus**
University of Manchester

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Department of Mechanical, Aerospace & Civil Engineering

**Course Last Reviewed**
2023-2024

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