<h1 class="pageTitle">CVEN30010 Geotechnics 2</h1>
<h2>Academic Year 2019/2020</h2>

Module will continue on from Sage 2 Geotechnics 1 (CVEN20110) and continue work on topics such as effective stress, permeability and seepage, shear strength - with a focus on the triaxial test and slope stability. Students will be introduced to new topics such as consolidation theory, earth pressures on rigid and flexible walls, bearing capacity and site investigation techniques. Techniques for measuring associated design parameters both in the field and the lab will be discussed. Two laboratory experiments will be also performed.

Curricular information is subject to change

What will I learn?

Learning Outcomes:
1) understand the fundamental principles of soil mechanics as listed above, 2) carry out, interpret and report onrelated lab tests and undertake foundation design both from a settlement and bearing capacity point of view and 3) be able to undertake practical seepage, slope stability and retaining wall stability calculations.

Indicative Module Content:
See above

How will I learn?

Student Effort Hours:

Student Effort Type	**Hours**
Lectures	24
Tutorial	12
Autonomous Student Learning	78
Total	**114**

Am I eligible to take this module?

Requirements, Exclusions and Recommendations

Learning Requirements:

Students must pass CVEN20110 Geotechnics 1 before taking this module.

Module Requisites and Incompatibles

Co-requisite:

CVEN20080 - Construction Materials, CVEN20110 - Geotechnics 1

<*strong*>*Incompatibles:*</*strong*>

BSEN30220 - Soil Engineering

Additional Information:

One of the specified co-requisites is required.

How will I be assessed?

Assessment Strategy

Description	Timing	Open Book Exam	Component Scale	Must Pass Component	% of Final Grade
Assignment: Tutorials and Labs	Varies over the Trimester	n/a	Standard conversion grade scale 40%	No	20
Examination: NORMAL 2 HOUR EXAM	2 hour End of Trimester Exam	No	Standard conversion grade scale 40%	No	80

Carry forward of passed components
Yes

What happens if I fail?

Resit In	Terminal Exam
Autumn	Yes - 2 Hour

Assessment feedback

Feedback Strategy/Strategies
* Feedback individually to students, on an activity or draft prior to summative assessment

How will my Feedback be Delivered?
Feedback within 1 week or at most 2 weeks of handing up each lab or tutorial

Reading List

Associated Staff

Name	Role
Dr David Morgan	Lecturer / Co-Lecturer

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<h1 class="printOnly"><img src="https://www.ucd.ie/t4cms/ucdcollegesandschools_logo.png"> UCD Course Search
Geotechnics 2 (CVEN30010) </h1><h3 class="printOnly">Academic Year 2019/2020</h3> The information contained in this document is, to the best of our knowledge, true and accurate at the time of publication, and is solely for informational purposes. University College Dublin accepts no liability for any loss or damage howsoever arising as a result of use or reliance on this information.
<h4 class="noPrint">Geotechnics 2 (CVEN30010)</h4>
<dl>
<dt>Subject:</dt>
<dd>Civil Engineering</dd>
<dt>College:</dt>
<dd>Engineering & Architecture</dd>
<dt>School:</dt>
<dd>Civil Engineering</dd>
<dt>Level:</dt>
<dd>3 (Degree)</dd>
<dt>Credits:</dt>
<dd>5.0</dd>

<dt>Trimester:</dt>
<dd>Spring</dd>
<dt>Module Coordinator:</dt>
<dd>Assoc Professor Michael Long</dd>
<dt>Mode of Delivery:</dt>
<dd>Face-to-Face</dd>
<dt>Internship Module:</dt><dd>No</dd>

<dt>How will I be graded?</dt>
<dd>Letter grades </dd>

</dl>
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