<div class="printBefore">
<h1 class="pageTitle">CVEN20110 Geotechnics 1</h1>
<h2>Academic Year 2019/2020</h2>

This course provides an introduction to Soil Mechanics and includes topics on: The origin of soils and the effect of depositional and loading history on soil behaviour of soils, description and classification of soil, basic (phase) relationships, engineered fill, compaction of soils, stresses in a soil mass, stress / strain behaviour in soils, settlement of structures, total and effective stress, permeability, shear strength of dry soil, introduction to slope stability
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What will I learn?

Learning Outcomes:

At the end of this module students should: (i) Understand the difference in behaviour of coarse and fine grained soils (ii) Demonstrate an ability to calculate stresses and strains in a soil mass and apply this to for example determining the settlement of structures (iii) Appreciate the significance of the multi-phase, particulate nature of soils (iv) understand and be able to apply a soil strength criterion to a problem such as slope stability (iv) have carried out at least 3 soils laboratory experiments including interpretation and reporting of the results

Indicative Module Content:
See above

How will I learn?

Student Effort Hours:

Student	Hours	
Effort Type		
Lectures	24	
Tutorial	12	
Autonomous	70	
Student		
Learning		
Total	106	

Am I eligible to take this module?

<div class="subHeadCB">Requirements, Exclusions and Recommendations</div>

Not applicable to this module.

<div class="subHeadCB">Module Requisites and Incompatibles</div>

Incompatibles:

BSEN30220 - Soil Engineering

How will I be assessed?

Assessment Strategy

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

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<div class="row">
<div class="col-sm-6"><span class="subHeadCB">Carry forward of passed components </span>
Yes</div>
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What happens if I fail?

Resit In	Terminal
	Exam
Spring	Yes - 2 Hour

Assessment feedback

<div class="subHeadCB">Feedback Strategy/Strategies</div>

< Feedback individually to students, on an activity or draft prior to summative assessment </p>

<div class="subHeadCB">How will my Feedback be Delivered?</div>

Return of each tutorial or lab in next week or at most 2 weeks after its completion

Reading List

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Geotechnics 1 (CVEN20110) </h1><h3 class="printOnly">Academic Year 2019/2020</h3>class="printOnly">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
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<h4 class="noPrint">Geotechnics 1 (CVEN20110)</h4>
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<dl>
<dt>Subject:</dt>
<dd>Civil Engineering</dd>
<dt>College:</dt>
<dd>Engineering & Architecture</dd>
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<dd>Civil Engineering</dd>

<dt>Level:</dt>

<dt>School:</dt>

<dd>2 (Intermediate)</dd>

<dt>Credits:</dt>

<dd>5.0</dd>

<dt>Trimester:</dt>

<dd>Autumn</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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