



School of Civil and Environmental Engineering

Term 2, 2020

# CVEN9521 SLOPE STABILITY AND STABILISATION

## COURSE DETAILS

<b>Units of Credit</b>	<b>6</b>
<b>Contact hours</b>	6 hours per week for four weeks and 3 hours per week for five weeks
<b>Classes and workshops</b>	Monday, 11:00–14:00 (wks 1, 3-5) Wednesday, 18:00–21:00 (wks 1-5, 7-10)

the course.

(An example of the approaches to learning are)

<b>Private Study</b>	<ul style="list-style-type: none"><li>&lt; Review lecture material</li><li>&lt; Do set problems and assignments</li><li>&lt; Reflect on class problems and assignments</li><li>&lt; Download materials from Moodle</li><li>&lt; Keep up with notices and find out marks via Moodle</li></ul>
<b>Lectures</b>	<ul style="list-style-type: none"><li>&lt; Find out what you must learn</li><li>&lt; Follow worked examples</li><li>&lt; Hear announcements on course changes</li></ul>

22/06/2020 and 24/06/2020 (Week 4)	Limit equilibrium methods of stability analyses Introduction to unsaturated soil mechanics	Lecture and workshop and SlopeW software demonstration
29/06/2020 and 01/07/2020 (Week 5)	Analysis of slopes involving unsaturated soils Laboratory testing, selection of parameters	Lecture and workshop
06/07/2020 (Week 6)	<b>No teaching</b>	<b>Flexibility week for all courses (non-teaching)</b>
15/07/2020 (Week 7)	Stabilisation techniques	Lecture and workshop
22/07/2020 (Week 8)	Mechanics of rapid failure and estimation of travel distance	Lecture and workshop
29/07/2020 (Week 9)	Quantitative Risk Assessment (QRA), principles and system framework	Lecture and demonstrations
03/08/2020 (Week 10)	Revision, case studies and example problems	Workshop and demonstrations

#### ASSESSMENT

- < Assignment 1, due beginning of Week 4 (9am 22nd June) value: 10%
- < Assignment 2, due beginning of Week 7 (9am 13th July) value: 10%
- < Assignment 3, due in Week 10 (5pm 5th August) value: 40%
- < Two hour open-book take-home final exam, held in the formal exam period (commencing 14<sup>th</sup> August) value: 40%

Details of each assessment component, the marks assigned to it, the c0 G[( )8(W)8(ks )28(a)6(ssi28(a)6(ssi28((e)6( )28(m)8(

<b>ASSESSMENT OVERVIEW</b>
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Item	Length	Weighting	Learning outcomes assessed	Assessment Criteria	Due date	Deadline for absolute fail	Marks returned
1. Assignment 1	~2 days	10%	1.1, 1.5, 2.1. 2.2. 2.3. 2.4. 3.1 3.2, 3.4, 3.5	Detailed on assignment question, located on Moodle	9am 22 <sup>nd</sup> June	none	26 <sup>th</sup> June
2. Assignment 2	~2 days	10%	1.1, 1.3, 1.4, 2.1. 2.2. 2.3. 3.2, 3.3, 3.4	Detailed on assignment question, located on Moodle	9am 13 <sup>th</sup> July	2 weeks after due date unless an extension is granted	~2 weeks after submission
3. Assignment 3	~4 weeks	40%	1.1, 1.3, 1.4, 2.1. 2.2. 2.3. 3.2, 3.3, 3.4	Detailed on assignment question, located on Moodle	5pm 5 <sup>th</sup>		



