



School of Civil and Environmental Engineering  
Term 3, 2021

# CVEN4309 SUSTAINABLE TIMBER ENGINEERING

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## COURSE DETAILS

**Lecture**

**Workshop**

**Course Coordinator  
and Lecturer**

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## INFORMATION ABOUT THE COURSE

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**EXPECTED LEARNING OUTCOMES**

*This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.*

Learning Outcome	EA Stage 1 Competencies
<i>Apply understanding of timber material properties and timber structural behaviour to the design of timber structural members and connections.</i>	PE1.1, PE1.2
<i>Interpret and apply relevant Australian and European Standards to competently design and evaluate the capacity of timber members and connections.</i>	PE1.1, PE1.2
<i>Appreciate the range of potential timber structures from houses to multistorey timber buildings and larger iconic structures.</i>	PE1.1, PE1.2
<i>Incorporate practical durability, fire, manufacture and assembly considerations in design.</i>	PE1.1, PE1.2

**6 – 8 hours per week**

**COURSE PROGRAM**

**Term 3 2021**

Date	Topic	Lecture Content	Workshop / Quiz
	<b>Introduction; Engineering Properties of Timber</b>		
	<b>Bending of Timber Members</b>		
	<b>Tension and Compression of Timber Members</b>		
	<b>Capacity of Connections</b>		
	<b>Material Properties of Cross-Laminated Timber</b>		
	<i>Flexibility week for all courses (non-teaching)</i>		

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**Capacity of Connections  
(for Cross-Laminated  
Timber)**

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## RELEVANT RESOURCES

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## DATES TO NOTE

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## PLAGIARISM

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## ACADEMIC ADVICE

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**Appendix A: Engineers Australia (EA) Competencies**

*Stage 1 Competencies for Professional Engineers*

	<b>Program Intended Learning Outcomes</b>
<b>PE1: Knowledge and Skill Base</b>	
<b>PE2: Engineering Application Ability</b>	
<b>PE3: Professional and Personal Attributes</b>	