uOttawa

Faculty of Engineering

CVG 4146 - Structural Design in Timber (3 credits)

Winter 2019

Instructor:	Christian Viau
Email:	cvia2@uottawa.ca
Office:	CBY C406
Office hours:	Friday, 16h00 – 17h15

1 - COURSE DESCRIPTION

Timber engineering; species groups, stresses, load factors. Mechanical fasteners and adhesives. Preservative treatments; fire safety, design and analysis of timber structures.

2 - REQUIRED TEXTBOOK

Wood Design Manual (2017) – required
Introduction to Wood Design (2011) – recommended

These books are available directly from the **Canadian Wood Council**:
Canadian Wood Council
Suite 400, 99 Bank St.
Ottawa K1P 6B9
613-747-5544
https://webstore.cwc.ca/

Enter Promo Code "Student" at checkout to receive a 40% discount. After your purchase, you will be required to send a copy of your student ID to the CWC as proof. Details: https://webstore.cwc.ca/student-promotion/

3 - TEACHING ASSISTANTS

- Reza Khajehpour (mkhaj098@uottawa.ca)
- Office hours: Thursday, 10h00 – 11h00 (CBY A120)

- Mohammad Masroor (mmasr100@uottawa.ca)
- Office hours: Tuesday, 13h00 – 14h00 (CBY A120)

For any questions or concerns regarding assignments and tutorials, please contact the TAs.

4 - COURSE SCHEDULE

Lecture:	Friday, 17:30-20:20 (LPR 155)
Tutorial:	Wednesday, 13:00-14:20 (MNT 201)

5 - ASSIGNMENTS

A total of six (6) assignments will be given during the course. These will be due two (2) weeks after being posted on Brightspace and are to be submitted in the CBY Lower Mezzanine assignment box, or directly to the professor or TA prior to the start of the Friday lecture.

The TAs will be responsible for the correction of the assignments. **No assignment solutions will be posted online**. The TAs will provide feedback directly on your copy.

6 - EXAMS

The midterm exam will be held tentatively on *March 8th* based on the material covered in class. This will be a 2hr 50m open book exam (Wood Design Manual only).

The final exam will be held on a date between *April 9th and 26th*, as scheduled by the Faculty of Engineering. This will be a 3hr open book exam (Wood Design Manual only).

7 - GRADING SCHEME

Assignments	15 %
Midterm Exam	30 %
Final Exam	55 %

8 - CLASSROOM ETIQUETTE

- Class attendance is **mandatory**. As per academic regulations, students who do not attend **80% of the lectures** will not be allowed to write the final examinations.
- Cell phones should be turned to silent.

9 - REMINDERS

- All components of the course (assignments, midterm, and final) must be fulfilled; otherwise, students may receive an EIN as a final mark (equivalent to an F). This is also valid for a student who is taking the course for the second time.
- The subject of copying, cheating and plagiarism are taken very seriously by the University of Ottawa. **The students are expected to submit their own work.** Students are expected to familiarize themselves with the University of Ottawa's policy on plagiarism (http://www.uottawa.ca/plagiarism.pdf). This policy will be strictly enforced in this course.

- Important dates and deadlines for the academic year can be found at the following link: http://www.registrar.uottawa.ca/Default.aspx?tabid=2671.

- As necessary, the instructor will contact students through their official University of Ottawa's e-mail address (username@uottawa.ca). You are responsible for ensuring you are receiving official course information in an efficient and timely manner.

The following table indicates approximately what topics will be covered during each week.

Week	Date	Covered Topics	Assignments
1	11-Jan-19	Introduction	Assignment 1 posted
2	18-Jan-19	Loading, strength and modification factors	
3	25-Jan-19	Design of Tension Members	Assignment 1 due Assignment 2 posted
4	01-Feb-19	Design of Compression Members	
5	08-Feb-19	Design of Compression Members (*cont.*)	Assignment 2 due Assignment 3 posted
6	15-Feb-19	Design of Bending Members	
7	22-Feb-19	**Study break**	
8	01-Mar-19	Design of Bending Members (*cont.*)	Assignment 3 due **Feb 25th** Assignment 4 given
9	08-Mar-19	**Mid-Term Exam (Open Book-WDM only)**	
10	15-Mar-19	Connection design	Assignment 4 due Assignment 5 given
11	22-Mar-19	Connection design (*cont.*)	
12	29-Mar-19	Lateral loading and design Wood Work Software	Assignment 5 due Assignment 6 given
13	05-Apr-19	Guest Lecturer Final Exam Review	
14	TBA	**Final Exam (Open Book-WDM only)**	