



Faculty of Engineering

COURSE OUTLINE

MECH450D – Pulp and Paper Technology

Term – **SPRING 2016 (201601)**

Instructor	Office Hours
Dr. Barbara Dalpke	Days: by request
Phone:	Time: by request
E-mail: dalpke@mech.ubc.ca	Location: by phone/videolink

List prerequisites required if not recorded in Calendar:

Lecture Schedule

Section: A / CRN22220	Days: Mo, Th	Time: 11:30-12:50	Location: David Turpin Building room 144
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Tutorial Schedule

Section: T N/A	Days:	Time:	Location:

Lab Schedule

Section: B (Multiple) N/A	Days:	Time:	Location:
Insert additional rows if required	(or leave blank and state how/when labs will be scheduled)		
Lab #1:			
Lab #2:			
Lab #3:			
Lab #4			

Lab times and locations are also available from the [timetable](#) through Sign in to UVic, My Page.

“Attendance

Students are expected to attend all classes in which they are enrolled. An academic unit may require a student to withdraw from a course if the student is registered in another course that occurs at the same time....

An instructor may refuse a student admission to a lecture, laboratory, online course discussion or learning activity, tutorial or other learning activity set out in the course outline because of lateness, misconduct, inattention or failure to meet the responsibilities of the course set out in the course outline. Students who neglect their academic work may be assigned a final grade of N or debarred from final examinations.

Students who do not attend classes must not assume that they have been dropped from a course by an academic unit or an instructor. Courses that are not formally dropped will be given a failing grade, students may be required to withdraw and will be required to pay the tuition fee for the course.” UVic Calendar, (2015) <http://web.uvic.ca/calendar2015-09/FACS/UnIn/UARe/Atte.html>

TA Name	E-mail	Office
Adham ElNewihy	elnewihy@uvic.ca	ELW B206

Required Text	Optional Text
Title: None	None
Author:	
Publisher/Year:	

COURSE OBJECTIVES: Verbose description of the material being covered in the course. How does the course build/relate to other courses in the program.

This course gives an overview of pulp and paper operations. Students will gain a basic understanding of the process of converting wood to paper. Included in the course material are the conversion of wood to fibre through mechanical or chemical pulping, processing of recycled fibre, the papermaking process and paper converting operations. A short introduction with regards to newer developments such as integration of biorefinery processes is given.

LEARNING OUTCOMES: At the end of this course, students will be able to:

- describe the basic steps of the pulp and paper making processes.
- use proper terminology encountered in pulp and paper making facilities.
- describe the interrelationships between basic wood, pulp and paper properties.

ASSIGNMENTS (Including Assignment Schedule):

A short video presentation to be developed in groups of 2-3 about a new bio-product that can be made from forest materials. Weight: 20%. Due March 20, 2016. Video presentation should include:

- The process of going from tree to bio-product
- The properties of the material
- The estimated environmental impact (benefit).
- An economic review
- Marks awarded for content / interesting / artistic presentation

There are no other marked assignments for the class, except the project as described above. However, several problem sets will be distributed throughout the term for students to verify their progress and to further their understanding of the course material. While these problem sets are not mandatory, it is highly recommended to work through them. Problem sets as well as solutions will be posted on the course webpage and discussed in class as required.

MIDTERM(S):

2 midterms, one covering pulping technology, one papermaking technology

FINAL EXAMINATION:

No final examination

Assessment:	Weight	Due Date
Group project	20%	As above
Mid-term 1	40%	Date: 22.2.2016
Mid-term 2	40%	Date: 24.3.2016

NOTE: Failure to submit the group project will result in a grade of 0% being awarded for the project.

The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar.

There will be no supplemental examination for this course.

REFERENCES

Note to Students:

Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the Chair of the Department by email or the Chair's Secretary to set up an appointment.

Accommodation of Religious Observance (AC1210)

<http://web.uvic.ca/calendar2015-09/GI/GUPo.html>

Discrimination and Harassment Policy (GV0205)

<http://web.uvic.ca/calendar2015-09/GI/GUPo.html>

Faculty of Engineering, University of Victoria Standards for Professional Behaviour

"It is the responsibility of all members of the Faculty of Engineering, students, staff and faculty, to adhere to and promote standards of professional behaviour that support an effective learning environment that prepares graduates for careers as professionals...."

You are advised to read the Faculty of Engineering document Standards for Professional Behaviour which contains important information regarding conduct in courses, labs, and in the general use of facilities. <http://www.uvic.ca/engineering/current/undergrad/index.php#section0-23>

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult the Undergraduate Calendar for the UVic policy on academic integrity.

Policy on Academic Integrity

<http://web.uvic.ca/calendar2015-09/FACS/UnIn/UARe/PoAcI.html>

Course Lecture Notes

Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.