

## **MECH 410A Special Topics in Mechanical Engineering - PULP & PAPER TCH**

### **Instructor:**

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Note: Course will also be taught by videolink to UVIC

### **Lecture Content:**

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 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.

Lecture topics are:

Introduction

Natural resources and fibre morphology

Pulp rheology

Mechanical pulping

Screening and cleaning

Chemical pulping and recovery

Recycled fibre

Papermaking introduction (Products, physics, testing, chemistry)

Stock preparation and LC refining

Papermachine

- Approach flow
- < >< >> Gain a basic understanding of the pulp and papermaking process
- Be familiar with basic concepts and terminology in pulp and paper processing
- Understand the interrelation between wood, pulp and paper properties and quality

### **Lecture Days and Times**

As this course will also be taught via videolink to students in UVIC, it will not be taught on the normal UBC timetable. The course will be on Modays and Thursdays from 11:30 - 12:50