

PCT 120: Pulp Manufacturing Technology

A comprehensive overview of pulp mill operations including pulping, pulp processing and bleaching technology, process variables, equipment, terminology and chemical recovery. Specific topics may include fiber supplies and their properties; wood and chip preparation; Kraft, sulfite, mechanical pulping; equipment; process variables; chemical reactions involved in the pulping and recovery processes; pulp processing including washing, screening, and cleaning; bleaching, chemical recovery (evaporation, combustion, recausticizing). Laboratory experiences will include hands-on or demonstrations of testing chips, pulp, black liquor and white liquor properties. Upon completion, students should be able to discuss the wood pulping processes, from fiber collection and cooking through various methods of washing, bleaching, and recovery.

Credits: 3

Lab Hours: 2

Lecture Hours: 2

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