

# Certificate in Pulp, Paper, and Bio-Resources Engineering

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Code	Title	Hours
<b>Required Courses: 9 Hours</b>		
CHEM 2081	Organic Chemistry II Laboratory *	1
CHEM 4100	Pulp and Paper Processing Laboratory	2
CHEM 5090	Pulp and Paper Technology	3
CHEM 5110	Pulp and Paper Engineering	3
<b>Choose one of the following: 3 Hours</b>		
CHEM 5130	Integrated Biorefineries	3
CHEM 5800	Biochemical Engineering	3
<b>Total Hours</b>		<b>12</b>

\* CHEM 2070, CHEM 2071, & CHEM 2080 are required to take CHEM 2081.