

The B.Sc. Wood Products Processing program is delivered on behalf of the Faculty of Forestry by the Department of Wood Science with the support of the Centre for Advanced Wood Processing.



This degree is designed to produce graduates capable of working in a diverse range of positions within the wood products sector. Students gain in-depth knowledge and understanding of wood as a material and develop strong business, financial, and organization skills, as well as a basic understanding of engineering concepts. The program places a strong emphasis on teaching students trouble-shooting, problem solving, teamwork, and leadership skills.

The first year of the Wood Products Processing degree is very much like first year science or engineering. Students take various math, chemistry and physics courses, as well as a first year English course. The emphasis of second year is to develop a basic knowledge of wood and material science and to introduce primary and secondary wood industry processing technology. In the third year students learn

basic manufacturing, followed by advanced manufacturing and operations in fourth year. In their fifth year, students complete electives and a capstone project that integrates much of their previous learning in the program. Many students also choose to complement their science degree with a Minor in Commerce.

The Co-op Option

Students completing the co-op option integrate their academic studies with valuable industry experience by alternating classroom learning with paid work terms. Participating students complete eight academic terms and five work terms over a five-year period to meet their degree requirements. Prior to commencing their first co-op work term, students complete the first two years of the Wood Products Processing Program.

CO-OP STUDENT AVAILABILITY

Co-op students are available for 4-month or 8-month work terms beginning in January, May, and September of each year. Students take courses and participate in work terms according to the following schedule:

| | Fall Sep – Dec | Winter Jan – Apr | Summer May – Aug |
|--------|-------------------------|-------------------------------|---|
| Year 1 | Basic Sciences | | Summer |
| Year 2 | Wood Material Science | | Wood Machining Skills & Mill Tours Co-op 1 (Junior) |
| Year 3 | Manufacturing Basics | Co-op 2 (Intermediate) | Co-op 3 (Intermediate) |
| Year 4 | Advanced Manufacturing | | Co-op 4 (Senior) |
| Year 5 | Co-op 5 (Senior) | Integration | |

The first co-op work term is only thirteen weeks in duration. All other work terms last a full four months. Co-op work terms 2 & 3 and 4 & 5 may be with two different companies, or combined so that a student can work at a single company for eight months.

WHAT CAN WOOD PRODUCTS PROCESSING CO-OP STUDENTS DO FOR YOU?

The first co-op work term is an introduction to the wood products sector for many students, and they should be able to handle basic assignments with limited supervision. As they progress through the program, students will be able to handle more complex projects on their own.



Experience has shown that students perform better when they are given a project or series of projects to complete during the work term, combined with tasks integrated into the company's day-to-day operation. Projects may last from a few weeks to a few months.



JUNIOR (2nd year students)

- create operating manuals
- track sources of losses or downgraded material
- support sales staff with administrative tasks
- develop or rebuild spreadsheets and graphs to track and analyse data
- assist quality control department conduct machine tests, moisture control studies, size control checks, log & lumber checks, fibre loss and chip quality tests
- assist with product development and testing
- conduct time and motion studies

INTERMEDIATE (3rd year students)

- develop quality control training manuals and orientation manuals for new employees
- conduct data analysis and report writing
- provide relief supervision
- estimate equipment capacity and improvements to tooling performance
- write technical sales manuals
- handle inbound and outbound sales calls and process customer orders

SENIOR (4th year students)

- develop and implement training programs
- determine plant layout changes and work flow improvements
- hire and supervise staff
- develop and implement quality assurance or preventative maintenance processes
- conduct feasibility studies and cost-benefit analysis
- market research, data analysis, and report writing

WHAT IS EXPECTED FROM EMPLOYERS?

- Provide full-time, relevant work that allows students to expand their learning
- At least a minimum wage salary, however higher salaries attract better candidates and are typically offered to students with more experience
- Provide assistance for the student's work term assignment and evaluate the student's performance during the work term

WHAT IS EXPECTED FROM STUDENTS?

- Maintain a good academic standing
- Attend all Co-op Workshops
- Actively seek and apply for suitable work term placements
- Follow all workplace rules and regulations, and complete assigned duties
- Complete their work term assignments

HOW MUCH ARE CO-OP STUDENTS PAID?

Co-op students are employees of the company that hires them for their work term, and all wages are the employer's responsibility. Wages are determined by the employer, within the salary structure of their organization; however, student salaries must be at least minimum wage.

TO HIRE A CO-OP STUDENT OR FOR MORE INFORMATION PLEASE CONTACT

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