Wood Products Processing

Degree Requirements

First Year

Required Courses		Credits	Done	Notes
FRST 150	Scholarly Writing and Argumentation in Forestry or	3	☐	
WRDS 150B	Writing and Research in the Disciplines or			
ENGL 110	Approaches to Literature or			
ENGL 111	Approaches to Non-fictional Prose			
CHEM 121	Structure and Bonding in Chemistry or	4	☐	
CHEM 111	Structure, Bonding, and Equilibrium in Chemistry			
CHEM 123	Thermodynamics, Kinetics and Organic Chemistry	4	☐	
MATH 100	Differential Calculus with Applications to Physical Sciences and Engineering or	3/4	☐	
MATH 102	Differential Calculus with Applications to Life Sciences or			
MATH 104	Differential Calculus with Applications to Commerce and Social Sciences or			
MATH 180[1]	Differential Calculus with Physical Applications, or			
MATH 184[1]	Differential Calculus for Social Science and Commerce)			
MATH 101	Integral Calculus with Applications to Physical Sciences and Engineering or	3	☐	
MATH 103	Integral Calculus with Applications to Life Sciences or			
MATH 105	Integral Calculus with Applications to Commerce and Social Sciences			
PHYS 101 (not offered in 21W) or		3/4	☐	
PHYS 117[2]	Dynamics and Waves or			
PHYS 131[2]	Energy and Waves and			
+ PHYS 119	Experimental Physics Lab I			
WOOD 120	Introduction to Wood Products and Global Trade	3	☐	
Electives[2]		9	☐	
Total Credits		32/33/34	☐	

[1] Students may take MATH 180 or 184 (4 credits) or MATH 110 (6 credits) instead of MATH 100, 102, or 104 (3 credits), but the credit difference cannot be applied towards program elective requirements.

[2] Students without Physics 12 must replace 3 credits of electives with PHYS 100 prior to taking PHYS 131+PHYS 119 or PHYS 117.

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Second Year

Required Courses		Credits	Done	Notes
ECON 101 FRST 101[3]	Principles of Microeconomics **or** Principles of Microeconomics for Forestry and Land and Food Systems	3	☐	
FRST 231	Introduction to Biometrics	3	☐	
WOOD 225	Communications Strategies	3	☐	
WOOD 244	Quantitative Methods in the Wood Industry	3	☐	
WOOD 245	Programming for Wood Products Manufacturing Applications	3	☐	
WOOD 249	Contemporary Topics in Forestry and Wood Products	1	☐	
WOOD 276	Mechanics of Wood Products	3	☐	
WOOD 280	Wood Anatomy and Identification	3	☐	
WOOD 282	Wood Physics and Mechanics	3	☐	
WOOD 290	Secondary Wood Products Manufacturing	3	☐	
WOOD 292	Two-Dimensional and Solid Computer-Aided Graphics	2	☐	
Total Credits		30	☐	
WOOD 353[4]	Mill Site Visits	2	☐	
WOOD 305[5]	Wood Machining Skills	3	☐	

[3] Only Land One students are eligible to take FRST 101

[4] Six working days of on-site study of wood products manufacturing plants immediately before or after WOOD 305.

[5] Practical woodworking course taken at the end of second year.

Third Year

Required Courses		Credits	Done	Notes
COMM 204	Logistics and Operations Management	3	☐	
WOOD 330	Industrial Engineering	3	☐	
WOOD 335	Quality Improvement	3	☐	
WOOD 356	Machine Components	2	☐	
WOOD 365	Wood Industry Business Management	3	☐	Former WOOD 465
WOOD 373	Wood Adhesives and Coatings	3	☐	
WOOD 384	Wood Sawmilling and Drying	3	☐	
WOOD 386	Applied Mechanics of Materials	3	☐	
WOOD 464	Wood Finishing and Protection	4	☐	
WOOD 482	CAD/CAM	4	☐	
WOOD 487	Wood Composites	3	☐	
Electives[6]		3	☐	
Total Credits		37	☐	

[6] Elective courses are chosen in consultation with the Program Director, and must be numbered 300 or higher.

Fourth Year

Required Courses		Credits	Done	Notes
COMR 457	Fundamentals of Financial Accounting	3	☐	
WOOD 440	Engineering Economics	3	☐	
WOOD 461	Globalization and Sustainability	3	☐	
WOOD 485	Furniture Construction	3	☐	
WOOD 491	Environmental Facilities Design	3	☐	
WOOD 492	Modelling for Decision Support	3	☐	
WOOD 494	Principles of Wood Cutting and Tooling	3	☐	
WOOD 499	Wood Products Capstone	6	☐	
Electives[6]		6	☐	
Total Credits		33	☐	

[6] Elective courses are chosen in consultation with the Program Director, and must be numbered 300 or higher.

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Co-op Option:

UBC Wood Products Processing Co-op Education Program takes your learning beyond the limitations of the classroom and extends it into the working world by alternating periods of full-time academic study with a total of up to 20 months of paid, relevant and hands-on industry work experience. Through this educational process you will benefit from the opportunity to test drive career options in the Wood Products industry in a highly supportive environment, while gaining practical skills and experience. As a co-op student, you will not only have the chance to make money while building valuable work experience; you will also increase awareness of your potential, capabilities, and areas of interest to help you take steps towards your future career goals.

The Wood Products Processing Co-op Program is a competitive academic program. Accepted co-op students will extend their degree by one year, completing eight academic terms and five work terms over a five-year period. Below is the standard program map for those in co-op:

	Term 1 Sep – Dec	Term 2 Jan – Apr	Summer May – Aug
Year 1	Basic Sciences		Summer
Year 2	Wood Material Science		WOOD 353 WOOD 305	Co-op 1 (Junior) WOOD 300
Year 3	Manufacturing Basics	Co-op 2 (Intermediate) WOOD 311	Co-op 3 (Intermediate) WOOD 312
Year 4	Advanced Manufacturing		Co-op 4 (Senior) WOOD 411
Year 5	Co-op 5 (Senior) WOOD 412	Integration	

Good to know:

- Undergraduate students must apply to co-op in September of their second year
- You should acquire a driver's license if you do not already have one
- Work in British Columbia, across Canada and around the world
- Be supported by our Co-op Coordinators every step of the way

To learn more about the Co-op Program and how you can apply, contact the Wood Products Processing Co-op Coordinator:

> Sanya Sivic
> Co-op Coordinator and Recruitment Officer
> Tel: 604-822-4793. Email: sanya.sivic@ubc.ca
> FSC 2902 (CAWP Building)

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Minor in Commerce

Enrolment in this program is limited. Applications are open just before the reading break in term 2 – the application deadline is normally around the middle of March. Students normally apply at towards the end of their second or third year and they must have a cumulative average of at least 68% in the previous two years of UBC courses. Applicants must have successfully completed one of MATH 100, 102, 104, 180, or 184 and both of ECON 101/FRST 101 (or ECON 310) and ECON 102 (or ECON 311). Meeting the stated requirements does not guarantee admission to the program. The program consists of COMM 204, COMR 329, 457, 465, 473, and 493. Upon successful completion of this Minor program, the notation "Minor in Commerce" will appear on the student's transcript. The Commerce Minor is intended to be completed over two years.

How to successfully complete first year:

1. You must follow your program closely – take the appropriate classes outlined for your degree. The most up-to-date program requirements are always listed on the UBC Calendar at www.students.ubc.ca/calendar (click on 'Faculties, Colleges, and Schools' and then on 'Forestry').
2. You must pass at least 60% of the total number of credits attempted in both Terms 1 and 2 (summer classes are not included).
3. You must also obtain an average grade of at least 60% in both Terms 1 and 2 combined, including any failed courses (summer classes are not included). If your average for Terms 1 and 2 is at least 55%, but less than 60%, you will be placed on academic probation and will be sent a letter outlining additional steps you must take in order to remain in your program.
4. If you do not meet the criteria noted above, you will be asked to leave UBC for at least one year. Following this one year absence, you may re-apply to UBC but you must complete at least 12 credits at a college during your time away.

Contacts:

Dr. Simon Ellis
Program Director
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FSC 2928 (CAWP Building)

Forestry Student Services
Advising Office
604-822-1834
forestry.undergrad@ubc.ca
FSC 2609

Sanya Sivic
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The UBC Calendar is always the most up-to-date resource for degree requirements,

http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,203,0,0 .